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FIGURE 2155

TAGGGCGGTGCGTAATTCGGCACGAGGGCGCTCACGTATGCCGGCGGTCAAGTGGTCCAGGTCCCTTATTCTGCC
TTCTCCTCCTGCTCCTGGACCCCCACAGCCCTGAGACGGGGTGTCTCCTCTACGCAGGTTTGAGTACAAGCTCA
GCTTCAAAGGCCCAAGGCTGGCATTGCCTGGGGCTGGAATACCCTTCTGGAGCCATCATGGAGACGCCATCCTGG
GCCTGGAGGAAGTGC GGCTGACGCCATCCATGAGGAACCGGAGTGGCGCCGTGTGGAGCAGGGCCTCTGTCCCT
TCTCTGCCTGGGAAGTAGAGGTGCAATGAGGGTGAACGGGACTGGGGCGCCGGGGAGCCACGGCATGGCCGTGT
GGTACACCCGGGGCAGGGGCCATGTAGGCTCTGTCTTGGGGGGCTGGCTTCGTGGGACGGCATCGGGATCTTCT
TTGACTCTCCGGCAGAGGATACTCAGGACAGTCTTGCATCCGTGTGTGGCCAGGACGGGCACATCCCCCTCTG
AGCAGCCTGGGGATGGAGCTAGCCAAGGGCTGGGGCTCTGTCTATTGGGACTTCCGGAACCGGCCACACCCCTTCA
GAGCAGCGATCACCTACTGGGGGCAGAGGCTGCGCATGTCTTGAACAGTGGCCTCACTCCAGTGATCCAGGTG
AGTTCTGTGTGGATGTGGGGCCCTGCTTTTGGTCCCTGGAGGTTTCTTTGGGGTCTCAGCAGCCACCGGCACCC
TGGCAGATGATCATGATGTCTGTCTTCTGACCTTCAGCCTGAGTGAGCCAGCCAGAGGTTCCCCCTCAGC
CCTTCTGGAGATGCAGCAGCTCCGCTGGCGAGGCACTGGAAGGGCTGTGGGCAAGGCTGGGCTTGGGCACCA
GGGAGGATGTAAC TCCAAAATCAGACTCTGAAGCTCAAGGAGAAGGGGAAAGGCTCTTTGACCTGGAGGAGACGC
TGGGCAGACACCGCCGATCCTGCAGGCTCTGCGGGTCTCTCCAAGCAGCTGGCCCAGGCTGAGAGACAATGGA
AGAAGCAGCTGGGGCCCCCAGGCCAAGCCAGGCTGACGGAGGCTGGGCCCTGGATGCTTCTGCCAGATTCCAT
CCACCCAGGGAGGGGTGGCCACCTCTCCATGTCACTCAATAAGGACTCTGCCAAGGTCGGTGCCCTGTCTCCATG
GACAGTGGACTCTGTCTCAGGCCCTGCAAGAGATGAGGGATGCAGCTGTCCGATGGCTGCAGAAGCCCAGGTCT
CCTACCTGCCTGTGGGCATTGAGCATCATTCTTAGAGCTGGACCACATCCTGGGCTCCTGCAGGAGGAGCTTC
GGGGCCCGGCGAAGGCAGCAGCCAAGGCCCCCCCGCCACCTGGCCAGCCCCCAAGGGCTCCTCGTGCCTGCAGC
CTGGCATCTTCTGTCTACCTCCTCATTGAGCTGTAGGCTTCTTCGGCTACGTGCACTTCAGGCAGGAGCTGA
ACAAGAGCCTTCAGGAGTGTCTGTCCACAGGCAGCCTTCTCTGGGTCTGCACCACACACCCCCAGGGCCCTGG
GGATTCTGAGGAGGCAGCCTCTCCCTGCCAGCATGCCTGCCAGCCACCTCAGAGCCTGCTTTGCATCACTGGG
AAGCAGGCAGTGTCTTGGGTGGGGGCTTGGTCAGTATCCTCTCCGTCTGGGTGCCAGCTCCACGCACACCTGA
GCTTTCGGCATGCTCCACCTCGTTAAAGGTGATTTCCCTCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

A

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FIGURE 2156

MPAVSGPGPLFCLLLLLLDPHSPETGCPPLRRFEYKLSFKGPRLALPGAGIPFWSHHGDAILGLEEVRLTPSMRN
RSGAVWSRASVPFSAWEVEVQMRVTGLGRRGAHGMVWYTRGRGHVGSVLGGLASWDGIGIFFDSPAEDTQDSPA
IRVLASDGHIPSEQPGDGASQGLGSCHWDFRNRPHPFRRARITYWGQRLRMSLNSGLTPSDPGEFCVDVGPLLLVP
GGFFGVSAATGTLADDHDVLSFLTFSLSPEVPPQPFLEMQLRLARQLEGLWARLGLGTREDVTPKSDSEAO
GGERLFDLEETLGRHRRILQALRGLSKQLAQAEQWKKQLGPPGQARPDGGWALDASCQIPSTPGRGGHLSMSL
NKDSAKVGALLHGQWTLQALQEMRDAAVRMAAEQVSYLPVGIHHFLELDHILGLLQEEIRGPAKAAAKAPRP
PGQPPRASSCLQPGIFLFYLLIQTVGFFGYVHFRQELNKSLECLSTGSLPLGPAPHTPRALGILRRQPLPASMP
A

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FIGURE 2157

AACAACTGCACCCACTGAACTCCGCAGCTAGCATCCAAATCAGCCCTTGAGATTGAGGCCTTGAGACTCAGG
AGTTTTGAGAGCAAAATGACAAACACCCAGAAATTCAGTAAATGGGACTTTCTGGCAGAGCCAATGAAAGGCCCT
ATTGCTATGCAATCTGGTCCAAAACCACTCTTCAGGAGGATGTCTTCACTGGTGGGCCCCACGCAAAGCTTCTTC
ATGAGGGAATCTAAGACTTTGGGGGCTGTCCAGATTATGAATGGGCTCTTCCACATTGCCCTGGGGGGTCTTCTG
ATGATCCCAGCAGGGATCTATGCACCCATCTGTGTGACTGTGTGGTACCCTCTCTGGGGAGGCATTATGTATATT
ATTTCCGGACTACTCCTGGCAGCAACGGAGAAAACTCCAGGAAGTGTGTTGGTCAAAGGAAAAATGATAATGAAT
TCATTGAGCCTCTTTGCTGCCATTTCTGGAATGATTCTTTCAATCATGGACATACTTAATATTAAATTTCCCAT
TTTTTAAAAATGGAGAGTCTGAATTTTATTAGAGCTCACACACCATATATTAACATATACAACGTGAACCAGCT
AATCCCTCTGAGAAAACTCCCCATCTACCCAATACTGTTACAGCATAACAATCTCTGTTCTTGGGCATTTTGTC
GTGATGCTGATCTTTGCCTTCTTCCAGGAACCTTGAATAGCTGGCATCGTTGAGAATGAATGGAAAAGAACGTGC
TCCAGACCCAAATCTAACATAGTTCTCTGTGTCAGCAGAAGAAAAAAGAACAGACTATTGAAATAAAAGAAGAA
GTGGTTGGGCTAACTGAAACATCTTCCCAACCAAGAATGAAGAAGACATTGAAATTATTCCAATCCAAGAAGAG
GAAGAAGAAGAAACAGAGACGAACCTTCCAGAACCTCCCCAAGATCAGGAATCCTCACCATAGAAAATGACAGC
TCTCCTTAAGTGATTCTTCTGTTTTCTGTTTCCTTTTTTAAACATTAGTGTTTCATAGCTTCCAAGAGACATGCT
GACTTTCATTTCTTGAGGTACTCTGCACATACGCACCACATCTCTATCTGGCCTTTGCATGGAGTGACCATAGCT
CCTTCTCTCTTACATTGAATGTAGAGAAATGTAGCCATTGTAGCAGCTTGTTGTGTCACGCTTCTTCTTTGAGCA
ACTTCTTACACTGAAGAAAGGCAGAATGAGTGCTTCAGAATGTGATTCCTACTAACCTGTTCTTTGGATAGGC
TTTTTAGTATAGTATTTTTTTTTGTCATTTCTCCATCAGCAACCAGGGAGACTGCACCTGATGAAAAGATATA
TGACTGCTTCATGACATTCCTAAACTATCTTTTTTTTATCCACATCTACGTTTTTGGTGGAGTCCCTTTTGCAT
CATTGTTTTAAGGATGATAAAAAAAAATAACAACCTAGGGACAATACAGAACCCATTCCATTTATCTTTCTACAG
GGCTGACATTGTGGCACAATTCTTAGAGTTACCACACCCCATGAGGGAAGCTCTAAATAGCCAACACCCATCTGTT
TTTTGTAAAAACAGCATAGCTT

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FIGURE 2158

MTTPRNSVNGTFLAEPKGPAMQSGPKPLFRRMSSLVGPTQSFFMRESKTLGAVQIMNGLFHIALGGLLMIPAG
IYAPICVTWVYPLWGGIMYIISGSLLAATEKNSRKCLVKGKMIMNSLSLFAAISGMILSIMDILNIKISHFLKME
SLNFIRAHTPYININCEPANPSEKNSPSTQYCYSIQSLFLGILSVMLIFAFFQELVIAGIVENEWKRTCSRPKS
NIVLLSAEEKKEQTIEIKEEVVGLTETSSQPKNEEDIEIPIQEEEEETETNFPPEPPDQESSPIENDSSP

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FIGURE 2159

CTTGAGAGGCTCTGGCTCTTGCTTCTTAGGCGGCCCGAGGACGCCATGGCCGAGTGCCCGACACTCGGGGAGGCA
GTCACCGACCACCCGGACCGCTGTGGGCCTGGGAGAAGTTCGTGTATTTGGACGAGAAGCAGCACGCCTGGCTG
CCCTTAACCATCGAGATAAAGGATAGGTTACAGTTACGGGTGCTCTTGCGTCGGGAAGACGTCGTCCTGGGGAGG
CCTATGACCCCCACCCAGATAGGCCCAAGCCTGCTGCCTATCATGTGGCAGCTCTACCCTGATGGACGATACCGA
TCCTCAGACTCCAGTTTCTGGCGCTTAGTGTACCACATCAAGATTGACGGCGTGGAGGACATGCTTCTCGAGCTG
CTGCCAGATGACTGATGTATGGTCTTGGCAGCACCTGTCTCCTTTACCCCCAGGGCCTGAGCCTGGCCAGCCTAC
AATGGGGATGTTGTGTTTCTGTTACCTTCGTTTACTATGCCGTGTGTCTTCTCCACCACGCTGGGGTCTGGGAGG
AATGGACAGACAGAGGATGAGCTCTACCCAGGGCCTGCAGGACCTGCCTGTAGCCCACTCTGCTCGCCTTAGCAC
TACCACTCCTGCCAAGGAGGATTCCATTTGGCAGAGCTTCTTCCAGGTGCCAGCTATACCTGTGCCTCGGCCTT
TCTCAGCTGGATGATGGTCTTCAGCCTCTTTCTGTCCCTTCTGTCCCTCACAGCACTAGTATTTTCATGTTGCACA
CCCACTCAGCTCCGTGAACTTGTGAGAACACAGCCGATTACCTGAGCAGGACCTCTGAAACCTGGACCAGTGG
TCTCACATGGTGCTACGCCTGCATGTAAACACGCCTGCAAACGCTGCCTGCCGGTAAACACGCCTGCAAACGCTG
CCTGCCCCGTAAACACGCCTGCAAACGCTGCCTGCCCACACAGGTTACGTGCAGCTCAAGGAAAGGCCTGAAAGG
AGCCCTTATCTGTGCTCAGGACTCAGAAGCCTCTGGGTGAGTGGTCCACATCCCGGGACGCAGCAGGAGGCCAGG
CCGGCGAGCCCTGTGGATGAGCCCTCAGAACCCTTGGCTTGGCCACGTGGAAAAGGGATAGAGGTTGGGTTTCCC
CCCTTTATAGATGGTCACGCACCTGGGTGTTACAAAGTTGTATGTGGCATGAATACTTTTTGTAATGATTGATTA
AATGCAAGATAGTTTATCTAACTTCGTGCGCAATCAGCTTCTATCCTTGACTTAGATTCTGGTGGAGAGAAGTGA
GAATAGGCAGCCCCCAATAAAAAATATTCATGGAAAAAAAAAAAAAAAAA

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FIGURE 2160

MAECPTLGEAVTDHPDRLWAWKEFVYLDEKQHAWLPLTIEIKDRLQLRVLLRREDVVLGRPMTPTQIGPSLLPIM
WQLYPDGRYRSSDSSFWRLLVYHIKIDGVEDMLLELLPDD

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FIGURE 2161A

GGCACTGTGTTACCAGCAGAGAGACAGGGCAAGCAGAATGTGCCTGTATGGACCTTTGCAAACGTCACCTACAAAC
CTGTGTGTGGATCTGACGGAGAATTCTATGAAAACCACTGTGAAGTGCACCGAGCTGCTTGCCCTGAAAAACAAA
AGATTACCATTGTTTCAAAATGAAGACTGCTCTTTAAAGGAGATAAGTGAAGACTACTGAATGCAGCAAGATGA
AAAATATGCTATTAGATTTACAAAATCAAAGATATATTATGCAAGAAAATGAAAATCCTAATGGCGACGACATAT
CTCGGAAGAAGCTATTGGTGGATCAAATGTTTAAATATTTTGATGCAGACAGTAATGACTTGTAGATATTAATGA
ACTAACTCAGGTGATAAAACAGGAAGAAGCTTGGCAAGGATCTCTTTGATTGTACTTTGTATGTTCTATTGAAATA
TGATGATTTTAAATGCTGACAAGCACCTGGCTCTTGAAGAAATTTATAGAGCATTCCAAGTGATCCAGTTGAGTCT
GCCAGAAGATCAGAAACTAAGCATCACTGCAGCAACTGTGGGACAAAAGTGTGTTCTGAGCTGTGCCATTCAAGG
AACCCTGAGACCTCCCATTATCTGGAAAAGGAACAATATTATTCTAAATAATTTAGGTTTGGGAAGACATCAATGA
CTTTGGAGATGATGGGTCCTTGATATTACTAAGGTTACCACAACCTCACGTTGGCAATTACACCTGCTATGCAGA
TGGCTATGAACAAGTCTATCAGACTCACATCTTCCAAGTGAATGTTTCTCCAGTCATCCGGGTGTATCCAGAGAG
TCAGGTATAGAGACCTGGGGTAACTGCCAGTCTTAGGTGCCATGCAGAGGGCATAACCAAGCCTCAGCTTGGCTG
GTTGAAGAATGGAATTGATATTACACCAAAGCTTTCCAACAACCTCACGTTCAAGCAAATGGCAGTGAGGTTCA
CATAAGCAATGCGCTATGAAGATACTGGAGCATAACCTTGATCGCAAAGAATGAAGCAGGAGTGAGTGAAGA
CATCTCTTCTCTTTTTGTGGAAAGACTCTGCTAGAAAAGACCCTAGCTAACATATTATGGAGAGAAGAAGGTCTGGG
AATTGGGAACATGTTCTATGTTTTTATGAAGATGGAATCAAAGTGATACAACCCATAGAATGTGAATTTTCAGAG
GCACATTAAGCCTAGTGAAGCTCCTTGGATTTCAGGATGAAGTCTGTCCCATAGCTGAGGGAGATGAAGTTCA
GAGGTGTGTGTGGGCATCAGCTGTTAATGTCAAAGACAAGTTCATTTATGTTGCACAGCCAACCTTGGACAGAGT
CCTTATTGTTGATGTGCAGTCCCAAAAAGTTGTTTCAGGCAGTGAGCACAGACCCTGTCCAGTTAAATTACACTA
TGACAAATCACATGATCAGGTCTGGGTGCTAAGCTGGGGTACCTTGGAGAAGACATCACCACACTACAGGTAAT
TACCCTGGCCAGTGGGAATGTGCCTCACCACACGATCCACACCCAACAGTGGGAAAGCAATTTGACAGAGTGGA
TGATTTTTTTCATTCCCACCACAACACTCATTATCACCATATGAGGTTTGGATTTATCTTCATAAAGATGAAGC
TGCACTACAAAAAATTGATCTTGAAACCATGTCATACATCAAGACAATTAACCTGAAGGACTATAAGTGCCTTCC
TCAGTCATTGGCATATACACACTTGGGAGGCTACTACTTCATTGGCTGCAAACCTGACAGCACCGGAGCAGTTTC
CCCACAGGTCATGGTGGACGGTGTAAGTGAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAG
CTCTCCAGATGGCCACTACCTTGTGAGCATTAAATGATGTGAAGGCTTGTGAAGGTTTCAGTACATTACCATCAG
AGGAGAAATACAGGAGGCTTTTGATATTTACACAAATCTGCACATATCTGATCTGGCATTTCACCATCCTTTAC
TGAAGCCCAACATATAACATCTACGGTAGTTCAAGCACACAACTGATGTGCTCTTTGTGGAGCTCTCTCTGG
GAAGGTCAAGATGATAAAGAGTCTCAAGGAACCACTCAAGGCAGAAGAATGGCCTTGAACAGGAAAAACAGGCA
AATCCAGGACAGTGGCTTGTGTTGTTCAATACCTGATGACACCTTCCAAGGACTCTCTCTTCATCCTAGATGGACG
ACTCAATAAATTAACCTGTGAGATCACTGAAGTTGAAAAAGGAAATACAGTCATTTGGGTTGGAGATGCCTAAAA
ACCCTACGATACAATTATTGAATGAAGCGTTTTACAATACATTGCACTTAATCCATTGTTTAAATTTACAACCTTA
ACTTTCCAAGTTTATATCCTAGTCAACAAAATTTACTTGGTTGGTCCAAATAAAATAAATGTTTTTGACTAAG
TGACTAAGACATACACAATTAATTATATTGGTTAATTAGAAATACAGCACAAATATTAAATGAGAAATCACATC
AGTCACAAGAATCAAATATGTAAATTATGCTTTAAACAATAAAGTAGGATTTAAATCATTTAAAAAATAAAGTGA
CAGGGAATTTAGATGACATAAAGCATTATTTCAATTTGAGGGTAGTTTATTCTTTTTCTGTCTCTTTTGGTAT
GATTAAACAAGAAATACAAGGTGTTGTGGAACTTAAATTTCTTAATTCAAAATATTCGGTCTGTCCACTGTTT
ATAATATTTGTGCCTTGAAGGGAATGTCACAGGAGGAAAAGGAAGACTAAAGCCTGCATACTAAATGCTCTCAT
AACTATAAATCTCTTGTGTTAAAAAACATCTCTTGCAACCAATCCTGTCTTCAGCCTTTTGTTTAACCTCAAT
GAACTACCAATTGAAGGCATAAGTTGGTCTTAGGTTGTATACAGGTGTCAAACCTCCACTTGACATTTACTGTGTA
ATCTGCAGCATGCTATAGAAAGTGGGGAGGAAGGGAGGAAAAATAATTACAGTCAAAATATTTGCAATCTGTCTA
CTCATTTTGCTTTCAATCACTAGAGTGCAATATGTTTTTAATGCAAGTTTGTCTGGGATGTCAACTGCCTACAGA
TGTTTTATTACTAGCAGAATAGATTATTTATTAATAGATTGTTTCTTTTCATATAGTCCATGTTTCATCATCAGG
AACTTTTCGGTTTTTAAAAAAGAAACATTACTTTTGTCTGCTAAAGTAAACCATATATAGGGAAATTAACACCTAGG
AAAAGAAAAGTGGCAAGTGAATTGATGAGGTATTAGTGGCTTAGAAGAATTAGTAATATAAGTTGGGAATAAAGG
GGTAGCCCGACAGTGGTAAGTAAAAATGTAGTACTCCATTGTTTTTGTCTATTAAATATAATGTATCAAAAACCT
TTATTCTAAAATTTCCACAAATGATTCTTTTATCCATCTTCTGTAATCCTAAAAGCATCTTCTCACTATGTGC
TGCAGTTTGAACCTAACGAATCCTCCTACTTGAGACACTGTAGAAAAGTAAAAATGTTGCTTCTGTTTTGTTT

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FIGURE 2161B

TAAGAGGAAATGAGAAGGCCAGCAGAAGTAGATTAAACTAGAGAGCTGGTTTATTAAATAAGCAGATAATTAT
CCAGGCTTAAAGTAATAGCTTACATGTTTTGAAATCCTTGACTTATTTTGTGTTTTATTGTTGCAAAAAATG
TTAATGGGCTGTTGAAATGACCTCCATTTACTTAAGGTAATCCAATAAGGTCTTTTTTAAATATACAAATTTAC
TCAAGTTTAAATTGTATAAACTGCTTAGAAACCTGAAATTTTATAGTGTGTAATATCTTATGTGTATATAGCAT
CCTGAGCTGTGTGATACAGTAGATTTCTTCTTAGCAGAAACATGCGAGGTAGACTTAATAAACAACAAAAATCAG
CTTATGTTTCTACTTATTGAATCTGCTTTACTTTTTAGCAATTTTCTTCCTTGGAACATGAACCATATAAAGTG
TCTGTGACTTAATGATTTTCATGTAAGTCTGTGCGATACATCCTTCTTTGTAGCTTACACCATGTGGATGCTCTG
TCTGTAGACACTGCTTGATAAAAGGAGAATAAACCTCTTACATTTTAAAAAAAAAAAAAAAAAAAA

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FIGURE 2162

GGATTTTTAAAAATGAGTGACACCACATGGTTCTCTTCAAAGATGTAACTGCTAGGGTGTGTTGGATGCAAGCTG.
AAATCACCTTTAAGAAGCCCATGCGCTACCAAGGTGGTTTTTCATGAGCCTATGCAAAAGTTTCTGGGACTGTGGGC
TTGTAGCCCTGGATGACATTACAATACAATTGGGAAGCTGCTCATCTTCAGAGAACTTCCACCTCCACCTGGAG
AGTGTACTTTTCGAGCAAGATGAATGTACATTTACTCAGGAGAAAAGAAACCGGAGCAGCTGGCACAGGAGGAGGG
GAGAAACTCCCACTTCTACACAGGACCAAAGGGAGATCACACTACTGGGGTAGGCTACTACATGTACATTGAGG
CCTCCCATATGGTGTATGGACAAAAGCAGCCTCTTGTCCAGGCCTCTGCGAGGAGTCTCTGAAAACACTGCT
TGACCTTTTTCTACCACATGTATGGAGGGGCACTGGCCTGCTGAGTGTTTATCTGAAAAGGAAGAAGACAGTG
AAGAGTCCCTCTTATGGAGGAGAAGAGGTGAACAGAGCATTTCCTGGCTACGAGCACTGATTGAATACAGCTGTG
AGAGGCAACACCAGATAATTTTTGAAGCCATTGAGGAGTATCAATAAGAAGTGATATTGCCATTGATGATGTTA
AATTCAGGCAGGACCTGTGGAGAAATGGAAGATACAACCAATCATCAGGATATTCTGAGGACTTAAATG
AAATTGAGTATTAAGAAATGATCTGCATTGGATTTACTAGACGAAAACCATACTCTCTTCAATCAAAATGAAAA
CAAAGCAAATGAATACTGGACAGTCTTAACAATTTTATAAGTTATAAAATGACTTTAGAGCACCTCCTTCATTA
CTTTTGCAAAAACATACTGACTCAGGGCTCTTTTTTCTTTTGCATATGACAACTGTTACTAGAAATACAGGCT
ACTGGTTTTGCATAGATCATTCATCTTAATTTTGGTACCAGTTAAAAATACAAATGTACTATATTGTAGTCATTT
TAAAGTACACAAAGGGCACAATCAAAATGAGATGCACTCATTTAAATCTGCATTGAGTGAATGTATTGGGAGAAA
AATAGGTCTTGCAGGTTTCCTTTTGAATTTTAAAGTATCATAAATATTTTTTAAGTAAATAATACGGGGTGTGAGT
AATATCTGCAGAATGAATGCAGTCTTTCATGCTAATGAGTTAGTCTGGAAAAATAAAGTCTTATTTTCTATGTTT
TATTCATAGAAATGGAGTATTAATTTTTAATATTTTACCATATGTGATAACAAAGGATCTTCATGAATGTCCA
AGGGTAAGTCAGTATTAATTAATGCTGTATTACAAGGCAATGCTACCTTCTTATTCCCCCTTGAACCTACCTTT
GAAGTCACTATGAGCACATGGATAGAAATTTAACTTTTTTTGTAAAGCAAGCTTAAATGTTTATGTATACATA
CCCAGCACTTTTATAAATGTGTTAAACAATTTTACTGATTTTATAATAAATATTTTGGTAAGATTTTGAATAA
TATGAATTCAGGCAGATATACTAACTGCTTTTATTACTTGTTAGAAAATTGTATATATATGTTTGTGTATCC
TAACAGCTGCTATGAAATTATAAAATTACCTAATAAAAATAATTGAAAATCTTAAAAAAAAAAAAAAAAAAAAAA
AA

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FIGURE 2163

MQAEITFKKPMPTKVVFMSLCKSFWDGGLVALDDITIQLGSCSSSEKLPPPPGECTFEQDECTFTQEKRNRSSWH
RRRGETPTSITGPKGDHTTGVGYYMYIEASHMVYQKARLLSRPLRGVSGKHCLTFFYHMYGGGTGLLSVYLKKE
EDSEESLLWRRRGEQSISWLRALIEYSCERQHQIIFEAIRGVSIIRSDIAIDDVKFQAGPCGEMEDTTQQSSGYSE
DLNEIEY

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FIGURE 2164

TGGTGGCCGGAGGCATTACCATCCTACACCCCTTCATGGCTGCCTCCAGGCCCTTCTTCAGGGACATCGTTTTCT
ACATGGTGGCTGTGTTCTTGACCTTCCTCATGCTCTTCCGTGGCAGGGTCACCCTGGCATGGGCTCTGGGTTACC
TGGGCTTGATGTGTTCTATGTGGTCACTGTGATTCTCTGCACCTGGATCTACCAACGGCAACGGAGAGGATCTC
TGTTCTGCCCCATGCCAGTTACTCCAGAGATCCTCTCAGACTCCGAGGAGGACCGGGTATCTTCTAATACCAACA
GCTATGACTACGGTGATGAGTACCGGCCGCTGTTCTTCTACCAGGAGACCACGGCTCAGATCCTGGTCCGGGCCC
TCAATCCCTGGATTACATGAAGTGGAGAAGGAAATCAGCATACTGGAAAGCCCTCAAGGTGTTCAAGCTGCCTG
TGGAGTTCCTGCTGCTCCTCACAGTCCCGTCGTGGACCCGGACAAGGATGACCAGAACTGGAAACGGCCCCCTCA
ACTGTCTGCATCTGGTTATCAGCCCCCTGGTTGTGGTCTGACCCTGCAGTCGGGGACCTATGGTGTCTATGAGA
TAGGCGGCCCTCGTTCCCGTCTGGGTGCTGGTGGTATCGCAGGCACAGCCTTGGCTTCAGTGACCTTTTTTGCCA
CATCTGACAGCCAGCCCCCAGGCTTCACTGGCTCTTTGCTTTCCTGGGCTTCTGACCAGCGCCCTGTGGATCA
ACGCGGCCGCCACAGAGGTGGTGAACATCTTGCGGTCCCTGGGTGTGGTCTTCCGGCTGAGCAACACTGTGCTGG
GGCTCACGCTGCTGGCCTGGGGGAACAGCATTGGAGATGCCTTCTCGGATTTCACTGGCTCGCCAGGGCTACC
CACGGATGGCGTTCTCCGCTGCTTTGGCGGCATCATCTTCAACATCCTCGTGGGTGTGGGGCTGGGCTGCCTGC
TCCAGATCTCCCGAAGCCACACAGAAGTGAAGCTGGAGCCAGACGGACTGCTGGTGTGGGTCTTGGCAGGCGCCC
TGGGGCTCAGCCTCGTCTTCTCCCTGGTCTCAGTCCATTGTCAGTGCTTCCAGCTCAGCAGAGTCTATGGCTTCT
GCCTGCTCCTCTTCTACCTGAACTTCTTGTGCTGGCCCTCCTCACTGAATTTGGAGTGATTACCTGAAAAGCA
TGTTGACTGAAGCCGCTTAGTGCTGTGGCCTCACTGCAGGCAGGAGCCCCGCCCTCCTGCCGGGGAGGCCCAGG
GACCGGAGCATTCTGCAAGGCCCTTGTGGGCACGAGAGTGCGGCCCTTGCTGCTGGAGATCTGAGGTCACTGCT
GTGAGCTGGGAGAACTGCTGTGTACCTCTTGCTGCCAGCACCAACAGCCTTGCCGTGGGGACCTTGGAAACCTG
GCTTTGCTCTGGACAAAGGGTTCAGAGAGAAGCTAGAAGTCCCCCTTGAATGACCCCCAGAGCCCTCTGAGAA
GGGCTGGAGTTTGGGGGAAGGGGATGGCTGGATGTGCTCCAGGCCATGCTGGAGGTACCCCCGAGGCACAGGCAC
TGCCCGTTCCCTTGCTGGGCTTCAAGCCTTCTGGCACCTTCTCAGGACACAAGTGGCTGCCCAACCTGACTC
AGAGAATGAGGGTGGCTTGGACCCCTGGGAATCAGGCCGCCGAGGGCTGAGCTCCAGAGCCGCACCATCTGCCAC
AAACAGAATTCGAGACATACTTAATTTGAATTTCTCCTTGCCACGTTAATAAAGCCAAAAGCAGCGGGTGCTAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 2165

MAASRPFFRDIVFYMVAVFLTFLMLFRGRVTLAWALGYLGLYVFYVVTVIILCTWIYQRQRGSLFCMPVTPPEIL
SDSEEDRVSSNTNSYDYGDEYRPLFFYQETTAQILVRALNPLDYMKWRRKSAYWKALKVFKLPVEFLLLLTVPVV
DPDKDDQNWKRP LNCLHLVISPLVVVLTLSQSGTYGVYEIGGLVPVWVVVVIAGTALASVTFEATSDSQPPRLHWL
FAFLGFLTSALWINAAATEVVNLRSLGVVFRLSNTVLGLTLLAWGNSIGDAFSDFTLARQGYPRMAFSACFGGI
IFNILVGVGLGCLLQISRSHTEVKLEPDGLLVWVLAGALGLSLVFSVSVPLQCFQLSRVYGFCLLL FYLNFLVV
ALLTEFGVIHLKSM

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FIGURE 2166A

AAGACAACGTCAGTACTAGCAGTTTCTGGAGCTACTTGCCAAAGGCTGAGTGTGAGCTGAGCCTGCCCCACCACCAAGA
TGATCCTGAGCTTGCTGTTTCAGCCTTGGGGGCCCCCTGGGGCTGGGGGCTGCTGGGGGCATGGGGCCAGGCTTCCA
GTACTAGCCTCTCTGATCTGCAGAGCTCCAGGACACCTGGGGTCTGGAAGGCAGAGGCTGAGGACACCAGCAAGG
ACCCCGTTGGACGTAACCTGGTGGCCCTACCCAATGTCCAAGCTGGTCACCTTACTAGCTCTTTGCAAAACAGAGA
AATTCCCTCATCCACTCGCAGCAGCCGTGTCCGAGGGAGCTCCAGACTGCCAGAAAGTCAAAGTCATGTACCGCA
TGGCCCAACAGCCAGTGTACCAGGTCAAGCAGAAGGTGCTGACCTCTTTGGCCTGGAGGTGCTGCCCTGGCTACA
CGGGCCCCAAGTGGCAGCACCACGATTCCATGGCAATCCCTGAGCCTGCAGATCCTGGTGACAGCCACCAGGAAC
CTCAGGATGGACCAGTCAGCTTCAAACCTGGCCACCTTGTCTGAGTGTATCAATGAGGTTGAGGTGCAACAGGAAC
AGCAGGAACATCTGCTGGGAGATCTCCAGAATGATGTGCACCGGGTGGCAGACAGCCTGCCAGGCCTGTGGAAAG
CCCTGCCCTGGTAACCTCACAGCTGCAGTGTGGAAGCAAATCAAACAGGGCAGGAGTCCCTGATAGATCCTTGG
AGCAGGTGCTGCTACCCACAGTGGACACCTTCTTACAAGTGCATTTTACGCCCCATCTGGAGGAGCTTTAAACCAA
GCCTGCACAGCCTTACCCAGGCCATAAGAAACCTGTCTCTTGACGTGGAGGCCAACCGCCAGGCCATCTCCAGAG
TCCAGGACAGTGGCGTGGCCAGGGCTGACTTCCAGGAGCTTGGTGCCAAATTTGAGGCCAAGGTCCAGGAGAACA
CTCAGAGAGTGGGTGAGTGCAGCAGGACGTGGAGGACCGCTGCACGCCAGCACTTTACCTGCACCGCTCGA
TCTCAGAGCTCCAAGCCGATGTGGACACCAAATTAAGAGGCTGCACAAGGCTCAGGAGGCCCCAGGGACCAATG
GCAGTCTGGTGTGGCAACGCCTGGGGCTGGGGCAAGGCCCTGAGCCGGACAGCCTGCAGGCCAGGCTGGGCCAGC
TGCAGAGGAACCTCTCAGAGCTGCACATGACCACGGCCCGCAGGGAGGAGGAGTGTGAGTACACCTGGAGGACA
TGAGGGCCACCTGACCCGGCAGTGGATGAGATCAAGGAAGTGTACTCCGAATCGGACGAGACTTTTCGATCAGA
TTAGCAAGGTGGAGCGGCAGGTGGAGGAGTGCAGGTGAACCACACGGCGCTCCGTGAGCTGCGCGTGATCCTGA
TGGAGAAGTCTCTGATCATGGAGGAGAACAAGGAGGAGGTGGAGCGGCAGCTCCTGGAGCTCAACCTCACGCTGC
AGCACCTGCAGGGTGGCCATGCCGACCTCATCAAGTACGTGAAGGACTGCAATTGCCAGAAGCTCTATTTAGACC
TGGACGTATCCGGGAGGGCCAGAGGGACGCCACGCGTGCCCTGGAGGAGACCCAGGTGAGCCTGGACGAGCGGC
GGCAGCTGGACGGCTCCTCCCTGCAGGCCCTGCAGAACGCCGTGGACGCCGTGTCGCTGGCCGTGGACGCGCACA
AAGCGGAGGGCGAGCGGGCGGGCGGGCCACGTGCGGGCTCCGGAGCCAAGTGCAGGCGCTGGATGACGAGGTGG
GCGCGCTGAAGCGGGCGGGCGGGCCAGGCCCCGACGAGGTGCGCCAGCTGCACAGCGCCTTCGCGGCCCTGCTGG
AGGACGCGCTGCGGCACGAGGCGGTGCTGGCCGCGCTCTTCGGGGAGGAGGTGCTGGAGGAGATGTCTGAGCAGA
CGCCGGGACCGCTGCCCCTGAGCTACGAGCAGATCCGCGTGCCCTGCAGGACGCCGCTAGCGGGCTGCAGGAGC
AGGCGCTCGGCTGGGACGAGCTGGCCGCCCCGAGTGACGGCCCTGGAGCAGGCCTCGGAGCCCCCGCGGCCGGCAG
AGCACCTGGAGCCAGCCACGACGCGGGCCGCGAGGAGGCCGCCACCACCGCCCTGGCCGGGTGGCGCGGGAGC
TCCAGAGCCTGAGCAACGACGTCAAGAATGTGCGGCGGTGCTGCGAGGCCGAGGCCGGGGCCGGGGCCCGCTCCC
TCAACGCCTCCCTTGACGGCCTCCACAACGCACCTCTTCGCCACTCAGCGCAGCTTGGAGCAGCACCAGCGGCTCT
TCCACAGCCTCTTTGGGAACCTTCAAGGGCTCATGGAAGCCAACGTCAGCCTGGACCTGGGGAAGCTGCAGACCA
TGCTGAGCAGGAAAGGGAAGAAGCAGCAGAAAGACCTGGAAGCTCCCCGGAAGAGGGACAAGAAGGAAGCGGAGC
CTTTGGTGGACATACGGGTACAGGGCCTGTGCCAGGTGCCTTGGGCGCGGGCGCTCTGGGAGGCAGGATCCCCCTG
TGGCCTTCTATGCCAGCTTTTTCAGAAGGGACGGCTGCCCTGCAGACAGTGAAGTTCAACACCACATACATCAACA
TTGGCAGCAGCTACTTCCCTGAACATGGCTACTTCCGAGCCCCCTGAGCGTGGTGTCTACCTGTTTGACGTGAGCG
TTGAATTTGGCCCAGGGCCAGGCACCGGGCAGCTGGTGTGGAGGTACCATCGGACTCCAGTCTGTACCACTG
GGCAGGGGAGTGAAGCACAGCAACGGTCTTTGCCATGGCTGAGCTGCAGAAGGGTGAAGCAGTATGGTTTGAGT
TAACCCAGGGATCAATAACAAAGAGAAGCCTGTGCGGCACTGCATTTGGGGGCTTCCCTGATGTTTAAAGACCTGAA
CCCCAGCCCCAATCTGATCAGACATCATGGAATCGCCAGCTCTCCTCGGCCTGGGGCTCTGGCCAAGGATGGGC
TGGAGGTCAATTCAGTTGGTCTGTCTCTTCCCTGGAACCTTCTGCAAAGATGGTGTGGTGTACGTGGCTTCCCTG
TAACCACATGGGGCTTGGCCATTTCTCCATGATGAGAAGGACTGGAATGCTTCTCCGGGCAGGACATGGTCCTAG
GAAGCCTGAACCTTGGCTTGGCATGCCCTTCTCAGACAGCAGGCCCTGGGCTCCAACCTTTCACCACACCCTGTAT
TCTACAACTTCTTTGGTGTCTTCTCCTCCTGTGGTGGAACTTCTGTACAACACTTTAACTTTTCTCTTGCT
TCCTCTTCTCTTCTCCCTTATCGTATGATAGAAAGACATTCTTCCCCAGGAGGAATGTTTAAATGGAGGCAACA
TTTTGGCCAACATTGGAAAGCACTAGAGGGCAATGGGATTAAACCAACCTGCTTGGTCTCTATTAGTCAGTAATG
AAGACGACAGCCTGGCCAACCAAGGGAAGGAATTAGTATCTTTAGTTTCAGTCATTCTTGTAGGATATGGTT
TAGCTGTGCCCCACCTAAAATATCATCTTGAATTGTAATCCCTATAATCCCCACATCAAGGGAGAGATCAGGTG

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FIGURE 2166B

GAGGTAATTGGATCTTGGGGGCGGTTCCCCCATGCTGTTCTTGTGATAGTTCTCAGAGATCTGATGATTTTATA
AGTTTGATAGTTCCTCCTGTGTTCAATTCTCCTTCCIGCCACCTTGTGAAGATGCCTTGGTTCCTCTTCACTGTCT
GCCATGATTGTAAGTTTCTGAGGCCTCCCCAGCCATGTGGAACAGTGAGTCAATTAAACCTCTTTCCTTTATAA
ATT

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FIGURE 2167

MILSLLFSLGGPLGWGLLGAWAQASSTSLSDLQSSRTPGVWKAEDTSKDPVGRNWCPYPMSKLVTLALCKTE
KFLIHSQQPCPQGAPDCQKVVMYRMAHKPVYQVKQKVLTSRAWCCPGYTGPNCHEHDSMAIPEPADPGDSHQE
PQDGPVSFKPGHLAAVINEVEVQQEQQEHLGLQNDVHRVADSLPGLWKALPGNLTAAMEANQTGHEFPDRSL
EQVLLPHVDITFLQVHFSPIWRSFNQSLHSLTQAIRNLSLDVEANRQAISRVQDSAVARADFQELGAKFEAKVQEN
TORVGQLRQDVEDRLHAQHFTLHRISISELQADVDTKLRLHKAQEAPGTNGSLVLATPGAGARPEPDSLQARLGQ
LQRNLSELHMTTARREEELQYTLEDMRATLTRHVDEIKELYSEDETDFDQISKVERQVEELQVNH TALRELRLVIL
MEKSLIMEENKEEVERQLELNLTLQHLQGGHADLIKYVKDCNCQKLYLDLDVIREGQRDATRALEETQVSLDER
RQLDGSSLQALQNAVDVAVSLAVDAHKAEGERARAATSRLRSQVQALDDEVGALKAAAAEARHEVRQLHSAFAALL
EDALRHEAVLAALFGEEVLEEMSEQTPGPLPLSYEQIRVALQDAASGLQEALGWDELAARVTALEQASEPPRPA
EHLEPSHDAGREEAATTALAGLARELQSLSDVKNVGRCCAEAGAGAASLNASLDGLHNALFATQRSLEQHQRRL
FHSFLGNFQGLMEANVSLDLGKLQTMLSRKGKKQKQDLEAPRKRDKKEAEPLVDIRVTGPVPGALGAALWEAGSP
VAFYASFSEGTAALQTVKFNTTYINIGSSYFPEHGYFRAPERGVYLFVAVSVEFGPGPGTGQLVFGGHHRTPVCTT
QGSGSTATVFAMAELOKGERVWFELTQGSITKRSLSGTAFGGFLMFKT

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FIGURE 2168

CCTGTCTCTCTTCGGGTCTCGGGCCCTTGGGCGCAGCGGGGCGCGGCCATGGCGAAGGCGAAGAAGGTCGGGGC
GCGAAGGAAGGCCCTCCGGGGCGCCGGCGGGAGCGCGAGGGGGCCCGGCGAAGGCCAACTCCAATCCGTTTCGAGGT
GAAAGTTAACAGGCAGAAGTTCCAGATCCTGGGCCGGAAGACGCGGCCACGACGTGGGACTGCCCGGGGTGTCTCG
CGCACGGGCCCTCAGGAAGCGTACACAGACTTTACTAAAAGAGTACAAAGAAAGGGATAAATCCAATGTATTTCAG
AGATAAACGCTTCGGAGAATACAACAGCAACATGAGCCCCGAGGAGAAGATGATGAAGAGGTTTGCTCTGGAACA
GCAGCGACATCATGAGAAAAAAGCATCTACAATCTAAATGAAGATGAAGAATTGACTCATTATGGCCAGTCTTT
GGCAGACATCGAGAAGCATAATGACATTGTGGACAGTGACAGCGATGCTGAGGATCGAGGAACGTTGTCTGCTGA
GCTGACTGCTGCCCACTTTGGAGGAGGCGGTGGGCTCCTTCACAAGAAGACTCAACAGGAAGGCGAGGAGCGGGA
GAAACCGAAGTCCCGAAAGAGCTGATTGAAGAGCTCATTGCCAAGTCAAAACAAGAGAAGAGGGAGAGACAAGC
TCAACGAGAAGATGCCCTCGAGCTCACGGAGAAGCTAGACCAAGACTGGAAAGAAATTCAGACTCTCCTGTCCCA
CAAACTCCCAAGTCAGAGAACAGAGACAAAAGGAAAAACCCAAGCCCGATGCATATGACATGATGGTTTCGCGA
GCTTGGCTTTGAAATGAAGGCGCAGCCCTCTAACAGGATGAAGACGGAGGCAGAATTGGCAAAGGAAGAGCAGGA
GCACCTCAGGAAGCTGGAGGCTGAGAGACTTCGAAGAATGCTTGGAAAGGATGAGGATGAAAATGTTAAGAAACC
AAACATATGTCAGCAGATGATCTGAATGATGGCTTCGTGCTAGATAAAGATGACAGGCGTTTGCTTTCCTACAA
AGATGGAAAGATGAATGTCGAGGAAGATGTCCAGGAAGAGCAAAAGCAAGGAAGCCAGTGACCCTGAGAGCAACGA
GGAAGAAGGTGACAGTTCAGGCGGGGAGGACACAGAGGAGAGCGACAGCCCAGATAGCCACTTGACCTGGAATC
CAACGTGGAGAGTGAGGAAGAAAACGAGAAGCCAGCAAAAGAGCAGAGGCAGACTCCTGGGAAAGGGTTGATAAG
CGGCAAGGAAAGAGCTGGAAGGCTACCAGAGACGAGCTGCCCTACACGTTTCGAGCCCTGAATCCTATGAGGA
ACTGAGATCTCTGTTGTAGGAAGATCGATGGAAGAGCAGCTTTTGGTGGTGGAGAGAATTCAGAAGTGCAACCA
CCCGAGTCTCGCAGAAGGAAACAAAGCAAAATTAGAAAACTGTTTGGCTTTCTTTTGAATACGTTGGCGATTT
GGCTACAGATGACCCACCAGACCTCACAGTCATTGATAAGTTGGTTGTGCACCTTATATCATCTTTGCCAGATGTT
TCCTGAATCTGCAAGTGACGCTATCAAAATTTGTTCTCCGAGATGCGATGCATGAGATGGAAGAAATGATTGAGAC
CAAAGGCCGGGCGGCATTGCCAGGGTTGGATGTGCTCATTTATTTGAAAATCACTGGGCTGCTATTTCCAACCTC
CGACTTCTGGCACCCAGTGGTGACCCCTGCCCTCGTGTGCCTCAGTCAGCTGCTCACCAAGTGCCCCATCCTGTC
CCTCCAGGACGTGGTGAAGGGCCTGTTCTGTGTGCTGCCTGTTCTGGAGTATGTGGCTTTGTCCAGAGGTTTAT
ACCTGAGCTTATTAATTTCTTCTTGGGATTCTTTACATAGCAACTCCAAACAAAGCAAGCCAAGGTTCCACTCT
GGTGCACCCCTTTCAGAGCGCTTGGGAAGAACTCGGAACCTGCTCGTGGTGTCTGCTAGAGAGGATGTGGCCACGTG
GCAGCAGAGCAGCCTCTCCCTCCGCTGGGCGAGTAGACTGAGGGCCCCAACTTCGACAGAGGCCAATCACATCCG
ACTGTCCTGCCTGGCTGTGGGCCTGGCCCTGCTGAAGCGCTGCGTGCTCATGTACGGGTCCCTGCCATCCTTCCA
CGCCATCATGGGGCCTCTCCAAGCCCTCCTCACGGATCACCTGGCGGACTGCAGCCACCCGAGGAGCTCCAGGA
GCTGTGTCAGAGCACACTGACCGAAATGGAAAGCCAGAAGCAGCTCTGCCGGCCGCTGACCTGTGAGAAGAGCAA
GCCTGTCCCCTGAAGCTTTTACACCCCGGCTGGTCAAAGTCTCTGAGTTTGGAAGAAAAACAAGGCAGTAGTAA
GGAGGAACAGGAAAGGAAGAGGCTGATCCACAAACACAAGCGTGAATTTAAAGGGGCCGTTTCAGAAATCCGCAA
GGACAATCAGTTTCTGGCGAGGATGCAACTCTCAGAAATCATGGAACGGGATGCGGAAAGAAAGCGGAAAGTAAA
GCAGCTTTTAAACAGCCTGGCTACACAGGAAGGCGAATGGAAGGCTCTGAAGAGGAAAAAGTTCAAAAAATAAAT
TACATTTTATAAATAAGCTCCCCCACCCTGCTGCGGTTTTGTTTCTGTATAAACGTCACCTGATGAAATAG
AATGAATCCTGAAATGCACCTCTGGGATCGGGAATGGTCTGTGTGTTATCAGCTGCGACTGGTTCACTGCGTCTG
GACAAGCCTCATGGGACTGGGGATTCTGGCCAGTGTAATTTCTGTCAACCACGGACGTTTGCCCTTCATGTGTAG
AATTTACTGTTGTTATGCAAATTATATTTTCAATTATAA

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FIGURE 2169

AGAAGAAGCTGGCCAAGGATATGGGAGCAACCACCAATGGACCAGAAGTCTCTCTGGGCAGGTGTAGTGGTCTTGC
TGCTTCTCCAGGGAGGATCTGCCTACAACTGGTTTGCTACTTTACCAACTGGTCCCAGGACCGGCAGGAACCAG
GAAAATTCACCCCTGAGAATATTGACCCCTTCCTATGCTCTCATCTCATCTATTCAATTCGCCAGCATCGAAAACA
ACAAGGTTATCATCAAGGACAAGAGTGAAGTGATGCTCTACCAGACCATCAACAGTCTCAAAACCAAGAATCCCA
AACTGAAAATTCTCTTGTCATTGGAGGGTACCTGTTTGTTGCCAAAGGGTTCCACCCTATGGTGGATTCTTCTA
CATCACGCTTGGAAATTCATTA~~ACT~~CCATAATCCTGTTTCTGAGGAACCATAACTTTGATGGACTGGATGTAAGCT
GGATCTACCCAGATCAGAAAGAAAACACTCATTTCACTGTGCTGATTGATGAGTTAGCAGAAGCCTTTCAGAAGG
ACTTCACAAAATCCACCAAGGAAAGGCTTCTCTGACTGCGGGCGTATCTGCAGGGAGGCAAATGATTGATAACA
GCTATCAAGTTGAGAACTGGCAAAAGATCTGGATTTCATCAACCTCCTGTCCTTTGACTTCCATGGGTCTTGGG
AAAAGCCCCTTATCACTGGCCACAACAGCCCTCTGAGCAAGGGGTGGCAGGACAGAGGGCCAAGCTCCTACTACA
ATGTGGAATATGCTGTGGGGTACTGGATACATAAGGGAATGCCATCAGAGAAGGTGGTCATGGGCATCCCCACAT
ATGGGCACTCCTTCACACTGGCCTCTGCAGAAACCACCGTGGGGGCCCCCTGCCTCTGGCCCTGGAGCTGCTGGAC
CCATCACAGAGTCTTCAGGCTTCCTGGCCTATTATGAGATCTGCCAGTTCCTGAAAGGAGCCAAGATCACGCGCC
TCCAGGATCAGCAGGTTCCCTACGCAGTCAAGGGGAACCAAGTGGGTGGGCTATGATGATGTGAAGAGTATGGAGA
CCAAGGTTCAAGTCTTAAAGAATTTAAACCTGGGAGGAGCCATGATCTGGTCTATTGACATGGATGACTTCACTG
GCAAATCCTGCAACCAGGGCCCTTACCCTCTTGTCCAAGCAGTCAAGAGAAGCCTTGGCTCCTTGTGAAGGATTA
ACTTACAGAGAAGCAGGCAAGATGACCTTGCTGCCTGGGGCCTGCTCTCTCCCAGGAATTCTCATGTGGGATTCC
CCTTGCCAGGCTGGCCTTTGGATCTCTTCCAAGCCTTTCCTGACTTCCTCTTAGATCATAGATTGGACCTGGT
TTTGTTCCTGCAGCTGTTGACTTGTGCCCCTGAAGTACAATAAAAAAATTCATTTGCTCCAGTA

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FIGURE 2170

MDQKSLWAGVVVLLLLQGGSAYKLVCFYFTNWSQDRQEPGKFTPENIDPFLCSHLIYSFASIENNKVLIKDKSEVM
LYQTINSLKTKNPKLKILLSIGGYLFGSKGFHPMVDSSSTRLEFINSIILFLRNHNFDGLDVSWIYPDQKENTHF
TVLIHELAEAFQKDFTKSTKERLLLTAGVSAGRQMIDNSYQVEKLAKDLDFINLLSFDFHGSWEKPLITGHNSPL
SKGWQDRGPSSYYNVEYAVGYWIHKGMPSEKVVMGIPTYGHSFTLASAETTVGAPASGPGAAGPITESGFLAYY
EICQFLKGAKITRLQDQQVPYAVKGNQWVGYYDDVKSMETKVQFLKNLNLGGAMIWSIDMDDFTGKSCNQGPYPLV
QAVKRSLGSL

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FIGURE 2171A

AGAGTCCTGGATGAGACGGCTCGAGAGCGTGCCCGCTGCAGATAGAGATTGGGAAGCTGAGGGCAGAGTTGGAC
GAGGTCAACAAGAGCGCCAAGAAGAGGGAGGGCGAGCTTACGGTGGCCAGGGCCGTGTGAAGGACCTGGAGTCC
CTGTTCCACCGAGCGAGGTGGAGCTGGCAGCTGCCCTCAGCGACAAGCGCGGCTGGAGAGTGACGTGGCTGAG
CTGCGGGCCAGCTGGCCAAGGCCGAGGACGGTCATGCAGTGGCCA^{AAA}AGCAGCTGGAGAAGGAGACGCTGATG
CGTGTGGACCTGGAGAACCCTGCCAGAGCCTGCAGGAGGAGCTGGACTTCCGGAAGAGTGTGTTCGAGGAGGAG
GTGCGGGAGACGCGCGGGCGGCACGAGCGGGCGCTGGTGGAGGTGGACAGCAGCCGGCAGCAGGAGTACGACTTC
AAGATGGCACAGGCGCTGGAGGAGCTGCGGAGCCAGCAGCAGCAAGTGGGCTCTACAAGCTGGAGCTGGAG
CAGACCTACCAGGCAAGCTGGACAGCGCCAAGCTGAGCTCTGACCAGAACGACAAGGCGGCCAGTGGGCTCGC
GAGGAGCTGAAGGAGGCCCGCATGCGCCTGGAGTCCCTCAGCTACCAGCTCTCCGGCTCCAGAAGCAGGCCAGT
GCCGCTGAAGATCGCATTGGGAGCTGGAGGAGGCCATGGCCGGGAGCGGGACAAGTTCGGAAGATGCTGGAC
GCCAAGGAGCAGGAGATGACGGAGATGCGGGACGTGATGCAGCAGCAGCTGGCCGAGTACCAGGAGCTGCTGGAC
GTGAAGCTGGCCCTGGACATGGAGATCAACGCCTACCGGAAGCTCCTGGAGGGCGAGGAGGAGAGCCTGAAGCTG
TCCCCAGCCCATCTTCGCGCGTCACCGTCTCAGCAGCCACCTCGAGCAGCAGCGGCAGCTTGTCCGCCACCGGG
CGCCTGGGCGCAGTAAGCGGAAGCGCTGGAGGTGGAGGAGCCCTTGGCAGCGGCCCAAGCGTCTGGGCACGGG
CACGGGTGGCAGCGGTGGCTTCCACCTGGCCAGCAGGCTCGGCCTCGGGCAGCGTCACATCGAGGAGATCGAC
CTGGAGGGCAAGTTTGTGCAGCTCAAGAACA^{AA}CTCGGACAAGGATCAGTCTCTGGGGA^{AA}CTGGAGAATCAAGAGG
CAGGTCTTGGAGGGGGAGGAGATCGCCTACAAGTTCACGCCAAGTACATCCTGCGGGCCGGCCAGATGGTCAG
GTGTGGCAGCTGGTGGGGGGTGGCCACAGCCCCCTCGACGCTGGTGTGAAGGGCCAGAGCAGCTGGGGC
ACGGGCGAGAGCTTCCGCACCGTCTGGTTAACGCGGATGGCGAGGAAGTGGCCATGAGGACTGTGAAGAAGTCC
TCGGTGTGCGTGAGAATGAGAATGGGGAGGAAGAGGAGGAGGAAGCCGAGTTTGGCGAGGAGGATCTTTCCAC
CAACAGGGGGACCCGAGGACCACCTCAAGAGGCTGCTACGTGATGTGAACCCACACTCCTCATCCACACACCTTT
CTTTACCCAGAGCCACTGAAA^{AA}CTATTTTTATCATTGGCTTTCTTTAGTCTTGATACATTTCTAGAGAA^{TT}TC
TAAGCGAACTGCCAGAACGTGTGGGTGGGTCTCCCCAGCCCTCCCTCCTGGCGGGTCTCTCCAGCCTCACTTC
GCTGCCACTTCGCCGCTGCCCCGAGACTTTTCAATCCCA^{CC}CACTCCTCATCTCACCATTGGTCAA^{AT}TGGA
AGCCCAGGGCCAGGACCCGAGGTTTAGAAGATGCTTGGGCTTGGAGGGAGGAGGGCCGGCGAGGCTAGCGAGGG
GACAGGAGACGGCCCTGCTGCGGACGGAGCGGAA^{AA}CTGCGTAGGAATCAGTGGTGGTGGGTTTTTTAAGGC
TTTCTACAAA^{AA}CAAATTCAGAATCCAGGCGTCGACCTGGTGGGGCCCGGGCAAGCCTGCATTCTGGCTGCCCA
GCTTCGGACAGCGGGA^{AA}CTCCTCAGGCAGCCAGCAGCGGGTGTGGGCCAGCATGGGGATGGCGTGGCCCCAGGG
GGGTTTTCACTCCGCTGCTGGGCTTCCAGATTCCCGTTCTGGCAGCGACCGGCCGGGTTTTCTCGGACCGTTGAC
TTTATTTGGGGAGTTTTCCCGAGTTCA^{GT}TCTGACTGTGCAAGGCCAACAGGGCAGGGGAGGGGAAGACCTG
GGGAAGGAAGAATGAGGACACAGTCCCGTCTAAGACCTGTCAACA^{AA}TAAGCAGGGAGGGGAGATGTGGAGGG
GACACATCTGGTTGCCCTGGAGGCAGAAGCTGTGAGTTTCAAGACAGCTGTCTGCAGGGAACGCCACCATGTTGA
CCCTCTGGAGGAGAGCGCTGTGGAGCCCTCCCGTGTTCAGCTCCGTCTGCCCTGTGCCTATATATCACATGCG
TCTATCATACTGTGCTTTATCTGTGATTTTTCTCGCTGAAACATGTTTCTCAGACAGCCAAGGCCACCTGACTC
CTATCACGACGCA^{CC}CAAGCCCTCAGTCCAGCTTCCCAATGCCTGGCACCCCTTCGGCAATAGCTCACCGTTT
ACACCCTCCCTCATAGATACACAGAAGTTATTTTTTAAATGGATATTTATTTTTTACATTGGTCA^{GT}TACACAGG
TCAGGGAGCTCACGCCAGGGCTTGGAGACAGGCTGACCCTCCTCCCCGGGGTGGCGTGGGGCTGGGGCACCCCC
GACGGCAGAGCCTCCTTCAGAAAGTGCAGCTCAAGTCTTAAAGACACCA^{AA}ACTGAGCCATGGGCACGCGCCGTC
TCCGGGCCATGGCGTTCACTGCAGGGCGGGGGCGGCACCGCTCCCTGTGACTGCATCCCGCTCCCTGGGGACC
TGCTGTGGCAGGAAGGAATGGGGGGCCCCAGCCAGGCCGGGAAGGAGCCAGCGGCCGACAAAGCAGAAACACC
GCTGTCCACGTAGCCCTGCTGGCTGTCTTGTCTCAGAAGTCCCGGTCCCATGTAGATAGAGCCCGGCGGAT
CTTACCAAGCATTTCTCTGGAGGCTACGCCGCTTGGTGTCTCCAGTGAGGCGGCTGGTAGGGAGCTTTGCCT
GCCCCGGGGATACCTCTACCAGCCGCTGGAAGTGGGAATGCTGGCGACAGACTGTGTCTGTTTCCACCTTCAT
AGCAGGAATCACCCGACCCGACTGGCTGGGCTTCGTGCTAGCGAGGGTTTTCTGGGGGTGGGTCTTGGTGTATCT
TGTCTATGGGGA^{AT}CTCTGCAGTGGTCTCAGCCACATCCTAGTATATTTGGCTCTGGAGGAGCAAAGCTGTATC
CTGGAGTTGGTCTGTGATTTGCCGACAGACTTGCAAGCTGGGCTCAGCAAAGTCCCCCCCCAA^{AA}CCCGCAGGTCC
TCATGTCCAGACGCTGCCAGTCTGTCTGAAAACAGCACGCCCCAGGCCACAGA^{AA}CCCCCACCTACATTTG
CCTTGGGTGGAGCTGGGGGTGGTCCTAGGACTGCGGGTGCCTTAGCTGAAGGGGGCCCGCAGAAGCGTGAGCTG

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FIGURE 2171B

GGCCGCCTGTGGGTCATTGGAGGTTTCATTGAGAATTGAGTCCTTTGGAAAGACTAAGAAAATCAAATTTTTAAAA
GTTATTTATGGCCTGGGAAACAATTTGCATTGTGCCCCAAATACGCTTAGCTGTGTGCCGCTTAGAACGATGAGA
AACCATCCCTCTGTGTAAGCCCGTGCCGTGTGACTCGAAGCCTAGCGCCCTCCCTGCGAAGCATCAGACGCCACC
CAGCCCTGGGGGAGGCCACGCCTGCTGGACCAACGCGGGTTCTGGGGTGACAGCGCCAGGTTAACGCTGAAGC
CTGCCCCGCTGAGCCCAAGAGCCGGGAGGCCTGCGGGCTGACCCAGAATCCGATCATGCACCTGTCCTCATGCCA
GCGGCTTTGGCTGGGGTTGGTCTGAAGCCTGCACGCGGCAGTTCTTTGTTAAAGATCTGAGGGACTCGTCAGTCC
TAGCGTCGCCGCTGCAGCCTCTTCCAAGCCCTGCGTCCAGCGAGCGTCACAGCACAACCTGCAAAAACGGAGCT
GGGCTGCAGCTGGGGCTGGCATGGACTTTTCATTTAGAGATTTCGGTTTTTAAGAAGATGCATGCCTAGCGTGTTT
TTTTTTTTTCCAATGATTGTGAATATACATTTTATGACTGGAACTTTTTTGTACAACACTCCAATAAA

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FIGURE 2172

RVLDETARERARLQIEIGKLRAELDEVNKSAKKREGELTVAQGRVKDLES LFHRSEVELAAALSDKRGLESDVAE
LRAQLAKAEDGHAVAKKQLEKETLMRVDLENRCQSLQEELDFRKSVFEEVRETRRRHERRLVEVDSSRQQEYDF
KMAQALEELRSQHDEQVRLYKLELEQTYQAKLDSAKLSSDQNDKAASAAREELKEARMRLESLSYQLSGLQKQAS
AAEDRIRELEEEAMAGERDKFRKMLDAKEQEMTEMRDVMQQQLAEYQELLDVKLALDMEINAYRKLLGEGEESLKL
SPSPSSRVTVSRATSSSSGSLSATGRLGRSKRKRWRWRSPWQRPKRPBGHGHGWQRWLPPGPAGLGLGQRHIEEID
LEGKFVQLKNNSDKDQSLGNWRIKRQVLEGEETIAYKFTPKYILRAGQMTVWAAGAGVAHSPPSTLVWKGQSSWG
TGESFRTVLVNADGEEVAMRTVKKSVMRENENGESEEEEEAEFGEDLFHQQGDPRTTSRGCVYM

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FIGURE 2173

CTTATTATGACTGAACAAGCAAGAAGATATCTGAGTACTTACACAGCTACCAGTAGTACTTCAAGAGCTCTCATA
CTGTAATTGTTATTAAAAATTGATGATATGCCCCACTCCCTTACTGCAGTCTCTACTAAATTAGGTTGCAGTGAAA
TTTTTCTCAATTAGTTGTTTTTAAAGTTGTAAGATAGCCCTTTAATACAGCATCTTTTTTCTATTCTATATAGT
AGGCAGAAAGCTAGTAAGTCACCTTAAGGGGTAGATAGTTTCATAGTTTATTTTTTAAGAGATGAGATTTTTAAAA
ATTGTTTTTAAAGAACAAGATGGGAAAATAATAGAATGTTTCATGGATTTCTAAAAGTAAATTCTCATATATTTTC
TTCACAAGATATATGTTGCTACTCTCTTGATGCTGCAGTTTTGTTATAGATAGGTGTATGAGTATATATGATTC
TGAAATTAGTCTATGTATGGAAAGCACACATGATTTTATGAAGTACTTTTGCCCATGTGCTGATTTACTTAGGCT
ACCATTTACAAAGAAACACATTGAAAAGGAATTTAAAGGAAGGATAGAAAGTTGCACTACTAATTTTTTGTTTT
TTTTTCAGAAGCAGTAAAATTAACACAGTGTTAAATGTATTTATTTGAGCATAGTACTGAAAACAAAAAGCATT
CAAAAAGAGTTTTTTCTTTATTAGTAAATAGTATTTTCTTAATCTCAGAGGAGCTGAGAGTTTGTGTAATGTA
TTGTACAGTATGTAGGAGCAGGAGAACTTTGTAAATTGGAAAGAAGTCTGTTTTATAATTTATTTTATTTTAA
AAGCTT.

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FIGURE 2174

LIMTEQARRYLSTYTATSSISRALIL

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FIGURE 2175A

GGGAGCGCGGGGAGCGCGGGCCGGCGGGCGAGGGAGGACGGGGGCGCAGACGGCCGGCGCGCGGGCGGGCTAC
CATGGGCGTGCGGTGAGCAGCCGCTCGGGACGACTTCCTCGGCTGCGCGGGCGCTCGCGCGGAGCTCCCCGGCCGG
CGGTGCGTCCCCACGGTCACCATGAAAGACGACTTCGAGAGGAGGAGGAGGTGCAATCCTTCGGTTACAAGCGG
TTTGGTATTAGGAAGGAACACAATGTACCAATGTAAAAATAACTGGGCACTGAAGTTTTCTATCATATTATTA
TACATTTTGTGTGCTTGCTAACAAATCACAGTAGCCATTTTGGGATATAAAGTTGTAGAGAAAATGGACAATGTC
ACAGGTGGCATGGAAACATCTCGCCAAACCTATGATGACAAGCTCACAGCAGTGGAAAGTGACCTGAAAAAATTA
GGTGACCAAACTGGGAAGAAAGCTATCAGCACCACCTCAGAACTCTCCACCTTCAGATCAGACATTCTAGATCTC
CGTCAGCAACTTCGTGAGATTACAGAAAAACCAGCAAGAACAAGGATACGCTGGAGAAGTTACAGGCGAGCGGG
GATGCTCTGGTGGACAGGCAGAGTCAATTGAAAGAACTTTGGAGAATAACTCTTTCTCATCACCCTGTAAAC
AAAACCTCCAGGCGTATAATGGCTATGTACGAATCTGCAGCAAGATACCAGCGTGCTCCAGGGCAATCTGCAG
AACCAAATGTATTCTCATAATGTGGTCATCATGAACCTCAACAACCTGAACCTGACCCAGGTGCAGCAGAGGAAC
CTCATCAGCAATCTGCAGCGGTCTGTGGATGACACAAGCCAGGCTATCCAGCGAATCAAGAACGACTTTCAAAAT
CTGCAGCAGGTTTTTCTCAAGCCAAGAAGGACACGGATTGGCTGAAGGAGAAAGTGCAGAGCTTGCAGACACTG
GCTGCCAACTCTGCGTTGGCCAAAGCCAACAACGACACCCTGGAGGATATGAACAGCCAGCTCAACTCATTTC
ACAGGTGAGTGGAGAATCACCCTATCTCTCAAGCCAACGAGCAGAACCTGAAAGACCTGCAGGACTTACAC
AAAGATGCAGAGAATAGAACAGCCATCAAGTTCAACCACTGGAGGAACGCTTCCAGCTCTTTGAGACGGATATT
GTGAACATCATTAGCAATATCAGTTACACAGCCCACCACCTGCGGACGCTGACCAGCAATCTAAATGAAGTCAGG
ACCACTTGACAGATACCCCTACCAACACACAGATGATCTGACCTCCTGAATAATACCCTGGCCAACTCCGT
TTGGATTCTGTTTCTCTCAGGATGCAACAAGATTTGATGAGGTGAGGTTAGACACTGAAGTAGCCAACCTATCA
GTGATTATGGAAGAAATGAAGCTAGTAGACTCCAAGCATGGTCAGCTCATCAAGAATTTTACAATACTACAAGGT
CCACCGGGCCCCAGGGTCCAAGAGGTGACAGAGGATCCAGGGACCCCTGGCCCACTGGCAACAAGGGACAG
AAAGGAGAGAAGGGGGAGCCTGGACCACCTGGCCCTGCGGGTGAGAGAGGCCCAATTGGACCAGCTGGTCCCCC
GGAGAGCGTGGCGGCAAGGATCTAAAGGCTCCCAGGGCCCCAAAGGCTCCCGTGGTTCCCTGGGAAGCCCGGC
CCTCAGGGCCCCAGTGGGGACCCAGGCCCCCCGGGCCACCAGGCAAGAGGGACTCCCCGCCCTCAGGGCCCT
CCTGGCTTCCAGGGACTTCAGGGCACCGTTGGGGAGCCTGGGGTGCTTGACCTCGGGGACTGCCAGGCTTGCCCT
GGGGTACCAGGCATGCCAGGCCCCAAGGGCCCCCGGCCCTCCTGGCCATCAGGAGCGGTGGTGCCCTGGCC
CTGCAGAATGAGCCAACCCCGGCACCGGAGGACAATAGTAAGTCCAAGCCCTCCCTCCAGCCAGGGGGACAGGGC
AGTGCATGTGCTTGAGACTGAGCCAACCCCAAGTGTGTGCCCCACCCATGTTATTTTTGTTTTGTTTTGTTT
TGAGACAGGGTCTCACTCTGTGCCCAGGCTGGAGTGCAGTGGCGTGATCTCGGCTCACTGCAACCCCACTCC
CGGGTTCAAGTGATTCTCCTGCTTAGCCTCCAGGTAGCTGGGAATACAAGCGTGTGCCCCACAGCCAGCTAA
TTTTTGATTTTTAGTAGAGAGGGGTTTACAGTGTTGGGCAGGGTGGTTTCAAACCTCTGGCCTCAAGTGATCC
ACCTACCTAGTTTCCCAAAGTGCTGGGAATACAGGTGTGAACCACCACGTTTGTCCCCGGCTGCATATTATTT
AACAGCAAAGGCATCATAGGGGTTGGCACAGGAGCCCTGCTGCCAGAACAGGCCTCCATACCAGGCATGTGTCTC
TCTCTAAACGCCATTGGGTTTTTAGTGCTCATTGTTTTATGATTATGTGTGTATGTATGGGACAGGGTCTCA
CTCTGTACCCAGGCTGGAATGACGAAGTGAAGTAGTGCAACATAGCTCATTGCAGCTTTGACCTCCTGGGCTT
AGGTGATCTTCCCACTCAGACTCCTGCGTAGCTGGGACCACAGGGGTATGCCACCACACCTGGCTAATTTTTAT
TTTCTTTTTGTAGAAACAGGGTCTTGCTATGTTGCCAGGCTGGTCTTGAACCTCTGGCTCAAGCAACCTCC
TGCCCTCAGTCTTGCAAAGTGCTGGGATTCCAGGTGGGAGCCACTGCACCTGGCTCTTGCACTTGTTTATTTATAG
GAGCCAGCCCTCAGAAGACAAACACAATGCAAAACATTTCCCTCAGGGAAGCCTGCTGGCCGCCCTGAGCGCTCT
TCCCTCGTTTTACATCCTCACTCTGGAGATAGATGGGCTCCCTCGGTTAGCTCCATCAACATGTGGATGGAACCC
TCTGCTATTGATGACTACATTTAATTTCTTTTTGAGAAAGGTGTAGATGTTACGGTGCCCTCTAGTCTTTTGAT
AATTAAACCTTTGGCAAACTCGAATGTTGGTTAGCAACCAAGCCTATTTTTCTCTCCTTTGACCCAACCGCTA
TTCTACTTGATTTTGGTGGTGAGGCCCCGGTTATTTTTGTTGATCCGTGAGCCATTTTTGGTGCTGGGTTCTC
ACATCCAAGTGTTCTGGGTTCCGTATGATTCAGACTGACGCTGAACATCTGTGCCTGCCCTGCTTCTTGTGT
TGCTTCTGTCAATTTCTGTCAATGTGAAGACGGATCCAAACACAGAAGAACAAGACCCAGTCCAAGATCCATCCA
GATTATGTGGTTTTCGGCTTGCTCTGCAGTCCACTTTGGGTGATGCTTGTGCGAGCACGTCCTGTAACGTGAG
CTGTGGGCTCGTGCAGGGACGCTCAGGCTGCTCCAGCGGGACCACAGTTTTGGCCTCTGAAACACAGCTGAAG
AAAGGCAGAGTGCTTTCTGTGATCTTTAATCAATGTTTCCACTTTTGATTCTAGGCTGCCCCGCTCACTGG

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FIGURE 2175B

AAGAACTTCACAGACAAATGCTACTATTTTTTCAGTTGAGAAAGAAATTTTTGAGGATGCAAAGCTTTTCTGTGAA
GACAAGTCTTCACATCTTGTTTTTCATAAACACTAGAGAGGAACAGCAATGGATAAAAAACAGATGGTAGGGAGA
GAGAGCCACTGGATCGGCCTCACAGACTCAGAGCGTGAAAATGAATGGAAGTGGCTGGATGGGACATCTCCAGAC
TACAAAATTGGAAAGCTGGACAGCCGGATAACTGGGGTCATGGCCATGGGCCAGGAGAAGACTGTGCTGGGTTG
ATTTATGCTGGGCAGTGGAACGATTTCCAATGTGAAGACGTCAATAACTTCATTGCGAAAAAGACAGGGAGACA
GTACTGTCTCATCTGCATTATAACGGACTGTGATGGGATCACATGAGCAAATTTTCAGCTCTCAAAGGCAAAGGACA
CTCCTTTCTAATTGCATCACCTTCTCATCAGATTGAAAAAAAAAAGCACTGAAAACCAATTACTGAAAAAAAAAT
TGACAGCTAGTGTTTTTTTACCATCCGTCATTACCCAAAGACTTGGGAACTAAATGTTCCCCAGGGTGATATGCT
GATTTTCATTGTGCACATGGACTGAATCACATAGATTCTCCTCCGTCAGTAACCGTGCGATTATACAAATTATGT
CTTCCAAAGTATGGAACACTCCAATCAGAAAAAGGTTATCATTGGTCGTTGAGTTATGGGAAGAACTTAAGCATA
TACTGTGTAAACAGTGCCATACATTTCTAAAAATCCCAAGTGTAGGAAAAATATGCAGACATACAGATATATAGGC
CAACTATTAGTAATAATATGAAATATACTTAAAGAGCTTTTAAAACCTTTGTATTTTGTACAAAATATTTGTCTT
TTACAATTTTTTTCCTTTTTTTTTTTTTTGTCATTTTACCGACATAATACATGGAGCCAAAGAAAACAATAATGGT
ACTAATAAAAACTCCTAGGGTTTCTGTGAGATTTAATTCTACCCAGTGGCAAAGAATTTTTTCAATTGTGGCTT
TAAAAAATAATTAAATATACATGTATATATATAT

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FIGURE 2176

MKDDFAEEEEVPSFGFKRFGIHEGTQCPKCHNNWALKFSIILLYILCALLTITVAILGYKVVEKMDNVTGGMETS
RQTYDDKLTAVESDLKKLGDTGKKAISTNSELSTFRSDILDLRQQLREITEKTSKNKDTLEKLQASGDALVDRQ
SQLKETLENNNSFLITTVNKTLQAYNGYVTNLQQDTSVLQGNLQNMYSHNVMNLLNNLNLTVQQQRNLITNLQR
SVDDTSQAIQRIKNDFQNLQQVFLQAKKDDWLKEKVQSLQTLAANNSALAKANNDTLEDMSQLNSFTGQMENI
TTISQANEQNLKDLQDLHKDAENRTAIKFNQLEERFQLFETDIVNIIISNISYTAHHLRTLTSNLNEVRTTCTDTL
TKHTDDLTSLNNTLANIRLDSVSLRMQQDLMSRLDTEVANLSVIMEEMKLVD SKHGQLIKNFTILQGPPGPRGP
RGDRGSQGPPTGNKGQKGEKGEPPGPAGERGPIGPAGPPGERGGKGSKGSQGPKGSRGSPGKPGPQGPSGD
PGPPGPPGKEGLPGPQGPFGQLQGTVGEPGVPGPRGLPGLPGVPGMPGPKGPPGPPGPSGAVVPLALQNEPTP
APEDNSKSKPSLQPGGQGSACA

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FIGURE 2177

AGTTGAGCGCAGTCGCCGCTCCAGTCTATCCGGCACTAGGAACAGCCCCGGGGGCGAGACGGTCCCCGCCATGTC
TGCGGCCATGAGGGAGAGGTTTCGACCGGTTCTGCACGAGAAGAACTGCATGACTGACCTTCTGGCCAAGCTCGA
GGCCAAAACCGGCGTGAACAGGAGCTTCATCGCTCTTGGTGTATCGGACTGGTGGCCTTGACCTGGTGTTCGG
TTATGGAGCCTCTCTCCTCTGCAACCTGATAGGATTTGGCTACCCAGCCTACATCTCAATTAAAGCTATAGAGAG
TCCCAACAAAGAAGATGATACCCAGTGGCTGACCTACTGGGTAGTGTATGGTGTGTTACGATTGCTGAATTCTT
CTCTGATATCTTCTGTATGGTTCCCTTCTACTACATGCTGAAGTGTGGCTTCTGTGTGGTGCATGGCCCC
GAGCCCTTCTAATGGGGCTGAAGTGTCTACAAGCGCATCATCCGTCCTTTCTTCTGAAGCAGAGTCCCAGAT
GGACAGTGTGGTCAAGGACCTTAAAGACAAGTCCAAAGAGACTGCAGATGCCATCACTAAAGAAGCGAAGAAAGC
TACCGTGAATTTACTGGGTGAAGAAAAGAAGAGCACCTTAAACCAGACTAAACCAGACTGGATGGAAACTTCCTGC
CCTCTCTGTACCTTCTACTGGAGCTTGATGTATATTAGGGACTGTGGTATAATTATTTTAATAATGTTGCCTT
GGAAACATTTTGAGATATTAAAGATTGGAATGTGTTGTAAGTTCTTTGCTTACTTTTACTGTCTATATATATAG
GGAGCACTTTAACTTAAATGCAGTGGGCAGTGTCCACGTTTTTGGAAAATGTATTTGCTCTGGGTAGGAAAAG
ATGTATGTTGCTATCCTGCAGGAAATATAAACTTAAATAAAATTATATACCCACAGGCTGTGTACTTTACTGG
GCTCTCCCTGCACGXATTTTCTCTGTAGTTACATTTAGGXTAATCTTTATGGTTCTACTTCTXTAATGTACAAT
TTTATATAATTGXGAATGTTTTAATGTATTGTGCACATGTACATATGGAAATGTTACTGTCTGACTACAXCA
TGCATCATGCTCATGGGGAGGAGCAGGGGAAGGTTGTATGTGTCATTTATAACTTCTGTACAGTAAGACCACCT
GCAACAAGCTGGAGGAACCATTTGTGCTGGTGTGGTCTACTAAATAATACTTTAGGAAATACGTGATTAATATGCA
AGTGAACAAAGTGAGAAATGAAATCGAATGGAGATTGGCCTGGTTGTTTCCGTAGTATATGGCATATGAATACCA
GGATAGCTTTATAAAGCAGTTAGTTAGTTAGTTACTCACTCTAGTGATAAATCGGGAAATTTACACACACACACA
CACACACACACACACACACACACACACACACACACAGAGTACCCTGTAACCTCTCAATTCCTGAAAACTA
GTAATACTGTCTTATCTGCTATAAACTTTACATATTTGTCTATTGTCAAGATGCTACAXTGGAAXCCATTTCTGG
TTTTATCTTCAXAGXGGAGAXACATGTTGATTAGTCTTCTTTCCCAATCTTCTTTTTTAAXCCAGTTTXAGGXX
CTTCTGXAGATTTGXCCACCTCTGATTACATGTATGTTCTXGTTTGTATCATXAGCAACAACATGCTAATGXCGA
CACCTAGCTCTXAGXGCAATTTCTGGGAGAXTGAXAGGXXGTATAXAGTXXCCCATATCTGCTTGGCAATAGTTA
AGTCAATCTATCTTCAGTTTTTCTCTGGCCTTTAAGGTCAAACACAAGAGGCTTCCCTAGTTTACAAGTCAGAGT
CACTTGTAGTCCATTTAAATGCCCTCATCCGTATTCTTTGTGTTGATAAGCTGCACAXGACTACATAGTAAGTAC
AGAXCAGTAAAGTTAAXXCGGATGTCTCCATTGATCTGCCAAXTCGXATAGAGAGCAATTTGTCTGGACTAGAA
AATCTGAGTTTTACACCATACTGTTAAGAGTCCTTTTGAATTAACTAGACTAAAACAAGTGATAACTAAACTA
ACAAGATTAAATATCCAGCCAGTACAGTATTTTTTAAGGCAATAAAGATGATTAGCTCACCTTGAGXTAACAT
CAGGTAAGATCATXACAATGTCTCATGATGTXAAXAATATTAAAGATATCAATACTAAGTGACAGTATCACXXCT
AATATAATATGGATCAGAGCATTTATTTTGGGGAGGAAAACAGTGGTGATTACCGGCATTTTATTAACCTTAAAA
CTTTGTAGAAAGCAAACAAAATTGTTCTTGGGAGAAAATCACTTTTAGATTAAAAAAATTTTAAGTAXCTAGGA
GTATTTAAATCCCTTTCCCATAAATAAAAGTACAGTTTTCTTGGTGGCAGAAATGAAAATCAGCAACXTCTAGCAT
ATAGACTATATAATCAGATTGACAGCATATAGAATATATTATCAGACAAGATGAGGAGGTACAAAAGTTACTATT
GCTCATAATGACTTACAGGCTAAAXTAGXTXAAAATACTATATTAAATCTGAATGCAATTTTTTTTTTGTTC
CTTGAGACCAAAATTTAAGTTAACTGTTGCTGGCAGTCTAAGTGTAATGTTAACAGCAGGAGAAGTTAAGAATT
GAGCAGTTCTGTTGCATGATTTCCCAAATGAAATACTGCCTTGGCTAGAGTTTGAAAACCTAATTGAGCCTGTGC
CTGGCTAGAAAACAAGCGTTTATTTGAATGTGAATAGTGTTCAAAGGTATGTAGTTACAGAATTCCTACCAAAC
AGCTTAAATTCCTCAAGAAAGAATTCTTCAGCAGTTATTCCCTTACCTGAAGGCTTCAATCATTTGATCAACA
ACTGCTACTCTCGGAAGACTCCTCTACTCACAGCTGAAGAAAATGAGCACACCCTTACACTGTTATCACCTAT
CCTGAAGATGTGATACACTGAATGGAATAAATAGATGTAAATAAAATTGAGXTCTCATTTAAAAAAAACCATGT
GCCCAATGGGAAAATGACCTCATGTTGTGGTTTAAACAGCAACTGCACCCACTAGCACAGCCCATTTGAGCTAXCC
TATATATACATCTCTGTCACTGCCCCCTC

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FIGURE 2178

MRERFDRFLHEKNCMTDLLAKLEAKTGVNRSFIALGVIGLVALYLVFGYGASLLCNLIGFGYPAYISIKAIESPN
KEDDTQWLTYWVYGVFSIAEFFSDIFLSWFFPYMLKCGFLLWCMAPSPSNGAELLYKRIIRPFFLKHESQMS
VVKDLKDKSKETADAITKEAKKATVNLLGEEKKST

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FIGURE 2179

GGGGTACTCGGCGGGCGGCGAGCGGGCGGCAGAGCAGGGCGGCGGCGACTCGCAGGGTACCACCATCTTAAGGAC
AGAAAAGCTACAGGACTCTAGGAGGCCACCGTCCTGATTTGGGAAGTCCAACCTACTTTGGCCAGACAGCAGCTA
AGCTGGTTCATCCCATCAGCCTGGATTGGTGAAACTGAATCACAGGAGATATTTCCAGGTTTGCTGGGATGGGAA
ACCTGCTCAAAGTCCTTACCAGGGAAATTGAAACTATCCACACTTTTTCTGGAATTTTGAATGCTCAGCCTA
CAGAAGGAGAGAGAGAAATCTGGAACCAGATCAGCGCCGTCCTTCAGGATTCTGAGAGCATCCTTGCAGACCTGC
AGGCTTACAAAGGCGCAGGCCAGAGATCCGAGATGCAATTCAAATCCCAATGACATTGAGCTTCAAGAAAAAG
CTTGGAATGCGGTGTGCCCTCTTGTGTGAGGCTAAAGAGATTTTACGAGTTTCCATTAGACTAGAAAAAGCTC
TTCAGAGTTTATTGGAATCTCTGACTTGTCCACCCTACACACCAACCCAACACCTGGAAAGGGAACAGGCCCTGG
CAAAGGAGTTTGCCGAAATTTTACATTTTACCCTTCGATTGATGAGCTGAAGATGAGGAACCCGGCTATTGAGA
ATGACTTCAGCTACTACAGAAGAACAATCAGTCGCAACCGCATCAACAACATGCACCTAGACATTGAGAATGAAG
TCAATAATGAGATGGCCAATCGAATGTCCCTCTTCTATGCAGAAGCCACGCCAATGCTGAAAACCCCTTAGCAATG
CCACAATGCACTTTGTCTCTGAAAACAAAACCTCTGCCAATAGAGAACACCACAGACTGCCTCAGCACAATGACAA
GTGTCTGTAAAGTCATGCTGGAAACTCCGGAGTACAGAAGTAGGTTTACGAGTGAAGAGACCCTGATGTTCTGCA
TGAGGGTGATGGTGGGAGTCATCCTCTATGACCATGTCCACCCTGTGGGAGCTTTCTGCAAGACATCCAAGA
TCGATATGAAAGGCTGCATAAAAGTTTTGAAGGAGCAGGCCCCAGACAGTGTGGAGGGGCTGCTAAATGCCCTCA
GGTTCACTACAAAGCACTTGAACGATGAATCAACTTCCAAACAGATTCGAGCAATGCTTCAGTAGAGCTCTGCTC
AAAGAAGAGGATCTATGTGCTGACCTCAGAAGATGTATATGTTTACATAATTTAATACAGATTGATGTTAATACT
TGTGTATTTACATAACCGTTTCCTTCTTGTCACTGAAATATATGGACCTTAATTTGTATCCTGACTGACTCAACC
CAGCAGAGCATAAATTGACTTGAGAGCCTTACCTTTGATGTCTGAAATGAAACCCCTTCTCCAAAGGCAAAATT
CGGAGACTTTGATCTTTGCTACTGGAGTCCTTTAACAACATCTATAACGATAAAAAATTCCTAATTGTCAAAAA
AAAAAAAAAAAAA

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FIGURE 2180

MGNLLKVLTREIENYPHFFLDFENAQPTEGEREIWNQISAVLQDSESIADLQAYKGAGPEIRDAIQNPNDIQLO
EKAWNVCPLVVRLKRFYEFSIRLEKALQSLLESITCPPYTPTQHLEREQALAKEFAEILHFTLRFDELKMRNPA
IQNDFSYYRTISRNRINNMHLDIENEVNNEMANRMSLFYAEATPMLKTLNATMHFVSENKTLPIENTTDCLST
MTSVCKVMLETPEYRSRFTSEETLMFCMRVMVGVIILYDHVHPVGAFCKTSKIDMKGCIKVLKEQAPDSVEGLLN
ALRFTTKHLNDESTSKQIRAMLQ

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FIGURE 2181A

CTGGCCGCGGCGTGGGGACAGCGAGGCGCACTGGGGCCTCCAGCGCCGGGCCGGCCGCGCGCTCCAGCCCGAGG
TCTACGGCTTTGCGCTCCGAGCCCAGAGGAAGATGCCTGCCGGCACCAGCTCGGGCTCGGGGCTGAACGCCTG
TCTTCCAGGCGCACGGCAGCACTGCCCTCGGCCGGTGTCCGTAGCGGCACTCGGCGTGCCCCGGGCGGACGAAGA
GCGCAGGCTGGGTACACCTTGCCGAATCGGCCGAGTTCGCAGCTAGCGAGGGCGGGCCGGCCGGCCCGGATGGG
CGCGGGGTTTGGGCCCGCCGCGGTGCTCCGGAGCGGCCCGGGCACCAGGGGACGCTGAGTGCCGGAGCCGCG
GCCGCAGAGAGAACTTGGGGCGGGGGCCATGCACCGGTGCGGAGTCTAGAGCCGAGCGGAGCGCCCCGCGGGCCC
GCCCCGCTGCTCGGGCCGTTCCGGTCTCAGTCCCGCGCCCGGAGTTCGCAGCGCGCTCCAGACAAGATGGCG
CGGCCGGTCCGGGGAGGGCTCGGGGCCCCGCGCGCTCGCCTTGCTTCTCTTCTCTGGCTGCTTTTGCTTCGG
CTGGAGCCGGTGACCGCCGCGGCCGGCCCGCGGGCGCCCTGCGCGGCCGCTGCACTTGCGCTGGGGACTCGCTG
GACTGCGGTGGGCGCGGGCTGGCTGCGTTGCCCGGGACCTGCCCTCTGGACGCGGAGCTAAACCTGAGTTAC
AACAACTCTCTGAGATTGACCTGCTGGTTTTGAGGACTTGCCGAACCTACAGGAAGTGTACCTCAATAATAAT
GAGTTGACAGCGGTACCATCCCTGGGCGCTGCTTCATCACATGTCGTCTCTCTTTCTGCAGCACAACAAGATT
CGCAGCGTGGAGGGGAGCCAGCTGAAGGCCTACCTTTCCCTAGAAGTGTAGATCTGAGTTGAACAACATCAG
GAAGTGCAGAACACCTGCTTTCCACACGGACCGCCTATAAAGGAGCTCAACCTGGCAGGCAATCGGATTGGCACC
CTGGAGTTGGGAGCATTGATGGTCTGTACGGTCTGTGCTAAGTCTTCCGCTGAGCAAAAACAGGATCACCAG
CTTCTGTAAAGAGCATTCAAGCTACCCAGGCTGACACAACCTGGACCTCAATCGGAACAGGATTGCGCTGATAGAG
GGCCTCACCTTCCAGGGGCTCAACAGCTTGGAGGTGCTGAAGCTTCAGCGAAACAACATCAGCAAACTGACAGAT
GGGGCCTTCTGGGGACTGTCCAAGATGCATGTGCTGCACCTGGAGTACAACAGCCTGGTAGAAGTGAACAGCCGC
TCGCTCTACGGCCTCACGGCCCTGCATCAGCTCCACCTCAGCAACAATTCCATCGCTCGCATTCACCGCAAGGGC
TGGAGCTTCTGCCAGAAGCTGCATGAGTTGGTCTGTCTTCAACAACCTGACACGGCTGGACGAGGAGAGCCTG
GCCGAGCTGAGCAGCCTGAGTGTCTGCGTCTCAGCCACAATTCATCAGCCACATTGCGGAGGGTGCCTTCAAG
GGACTCAGGAGCCTGCGAGTCTTGGATCTGGACCATAACGAGATTTCCGGGCAATAGAGGACACGAGCGGCGCC
TTCTCAGGGCTCGACAGCCTCAGCAAGCTGACTCTGTTTGGAAACAAGATCAAGTCTGTGGCTAAGAGAGCATT
TCGGGGCTGGAAGGCCTGGAGCACCTGAACCTTGGAGGGAATGCGATCAGATCTGTCCAGTTTGATGCCTTTGTG
AAGATGAAGAATCTTAAAGAGCTCCATATCAGCAGCGACAGCTTCCCTGTGTGACTGCCAGCTGAAGTGGCTGCC
CCGTGGCTAATTGGCAGGATGCTGCAGGCCCTTGTGACAGCCACCTGTGCCACCCAGAACTACTGAAGGGTCAG
AGCATTTTCTCTGTGCCACCAGAGAGTTTCGTGTGCGATGACTTCCTGAAGCCACAGATCATCACCAGCCAGAA
ACCACCATGGCTATGGTGGGCAAGGACATCCGGTTTACATGCTCAGCAGCCAGCAGCAGCAGCTCCCCATGACC
TTTGCTTGAAGAAAGACAATGAAGTCTGACCAATGCAGACATGGAGAATTTGTCCACGTCCACGCGCAGGAC
GGGAAGTGATGGAGTACACCACCATCCTGCACCTCCGTGAGGTCACTTTCCGGGACGAGGGCCGCTACCAATGT
GTATCACCACCACTTTGGCTCCACCTATTACATAAGGCCAGGCTCACTGTGAATGTGTGGCATCATTACCC
AAAACGCCCCACGACATAACCATCCGGACCACCACCATGGCCCGCTCGAATGTGTGCCACAGGTACCCAAAC
CCTCAGATTGCCTGGCAGAAGGATGGAGGCACGGATTTCCCGCTGCCCGTGAGCGACGCATGCATGTATGCCG
GATGACGACGTGTTTTTATCACTGATGTGAAAATAGATGACGCGAGGGGTTTACAGCTGTACTGCTCAGAACTCA
GCCGTTCTATTTAGCTAATGCCACCCTGACTGTCTAGAGACCCCATCCTTGGTGGTCCCTTGAAGACCGT
GTGGTATCTGTGGGAGAAACAGTGGCCCTCCAATGCAAAGCCACGGGGAACCTCCGCCCCGCATCACCTGGTTC
AAGGGGGACCGCCGCTGAGCCTCACTGAGCGGCACCACCTGACCCCTGACAACCAGCTCCTGGTGGTTTCAAG
GTGGTGGCAGAGGATGCGGGCCGATATACCTGTGAGATGTCCAACACCCTGGGCACGGAGCGAGCTCACAGCCAG
CTGAGCGTCTGCCCGCAGCAGGCTGCAGGAAGGATGGGACCACGGTAGGCATCTTACCATTGCTGTGCTGAGC
AGCATCGTCTGACGTCACTGGTCTGGGTGTGCATCATCTACCAGACCAGGAAGAAGAGTGAAGAGTACAGTGT
ACCAACACAGATGAAACCGTCTGTGCCACCAGATGTTCCAAGCTACCTCTCTTCTCAGGGGACCCCTTCTGACCGA
CAAGAAACCGTGGTCAAGACCGAGGGTGGGGCCCTCAGGCCAATGGGCACATTGAGAGCAATGGTGTGTGTCCA
AGAGATGCAAGCCACTTTCCAGAGCCCGACACTCACAGCGTTGCCGTCAGGCAGCCAAAGCTCTGTGCTGGGTCT
GCGTATCACAAGAGCCGTGGAAAGCGATTGAGAAAGCTGAAGGGACACCTGGGCCACATAAGATGGAACACGGT
GGCCGGGTGCTATGCACTGACTGCAACACCGAAGTGGACTGTTACTCCAGGGGACAAGCCTTCCACCCACGCT
GTGTCCAGACAGCGCACAGCCAAGTGGCCAAATGGCCCGGAGCCGGTGGGAGTGACCAAGAGCATCTCCA
CATCACCAGTGCAGCAGGACTGCCGCTGGGTCTGCCCGAGTGCCAAGGGTCTGCTTACCCAGTAACCACGAT
AGAATGCTGACGGCTGTGAAGAAAAGCCAATGGCATCTCTAGATGGGAAAGGGGATTCTTCTGGACTTTAGCA

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FIGURE 2181B

AGGTTGTATCACCCGGACTCTACAGAGCTACAGCCTGCATCTTCATTAACCTTCAGGCAGTCCAGAGCGCGCGGAA
GCCCAGTACTTGCTTGTTTCCAAATGGCCACCTCCCCAAAGCATGTGACGCCAGTCCCAGTCCACGCCACTGACA
GGACAGCTCCCCGGGAAACAGAGGGTGCCACTGCTGTTGGCACCACAAAAGCTAGGTTTTGTCTACCTCAGTTCTT
GTCATACCAATCTCTACGGGAAAGAGAGGTAGGAGAGGCTGCGAGGAAGCTTGGGTTCAAGCGTCACTCATCTGT
ACATAGTTGTAACCTCCCATGTGGAGTATCAGTCGCTCACAGGACTTGGATCTGAAGCACAGTAAACGCAAGAGGG
GATTTGTGTACAAAAGGCACAAAAAAGTATTTGATATCATTGTACATAAGAGTTTTTCAGAGATTTTCATATATCT
TTACAGAGGCTATTTTAACTTTAGTGATGGTTAACAGAAAAAATTATACAATTTTGACAATATTATTTTTTC
GTATCAGGTTGCTGTTTAAATTTTGAGGGGGTGGGGAAATAGTTCTGGTGCCTTAACGCATGGCTGGAATTTATA
GAGGCTACAACCACATTTGTTACAGGAGTTTTTGGTGCGGGTGGGGAAGGATGGAAGGCCTTGGATTATATTG
CACTTCATAGACCCCTAGGCTGCTGTGCGGTGGGACTCCACATGCGCCGGAAGGAGCTTCAGGTGAGCACTGCTC
ATGTGTGGATGCCCCTGCAACAGGCTTCCCTGTCTGTAGAGCCAGGGGTGCAAGTGCCATCCACACTTGCAGTGA
ATGGCTTTTCTTTTAGGTTTTAAGTCCTGTCTGTCTGTAAGGCGTAGAATCTGTCCGTCTGTAAGGCGTAGAATG
AGGGTTGTTAATCCATCACAAGCAAAAGGTCAGAACAGTTAAACACTGCCTTTCTCTCTCTCTTATTTTATGAT
AAAAGCAAATGTGGCCTTCTCAGTATCATTGATTGCTATTTGAGACTTTTAAATTAAGGTAAAGGCTGCTGGTG
TTGGTACCTGTGGATTTTTCTATACTGATGTTTTCGTTTTGCCAATATAATGAGTATTACATTGGCCTTGGGGGA
CAGAAAGGAGGAAGTTCTGACTTTTCAGGGCTACCTTATTTCTACTAAGGACCCAGAGCAGGCCTGTCCATGCCA
TTCCTTCGCACAGATGAAACTGAGCTGGGACTGGAAAGGACAGCCCTTGACCTGGGTCTGGGTATAATTTGCAC
TTTTGAGACTGGTAGCTAACCATCTTATGAGTGCCAATGTGTCAATTTAGTAAACTTAAATAGAAACAAGGTCCT
TCAATGTTCTTTTGGCCAAAAGCTGAAGGGAGTTACTGAGAAAATAGTTAACAATTACTGTCAGGTGTCATCAC
TGTTCAAAAGGTAAGCACATTTAGAATTTGTTCTTGACAGTTAACTGACTAATCTTACTTCCACAAAATATGTG
AATTTGCTGCTTCTGAGAGGCAATGTGAAAGAGGGAGTATTACTTTTATGTACAAAGTATTTATTTATAGAAAT
TTTGGTACAGTGATATTGAAAACCATGTAATAATTTGAAGTGTCTAACAAATGGCATTGAAGTGTCTTTAATAA
AGGTTCAATTTATAAATGTCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2182

MARPVRGGLGAPRRSPCLLLWLLLLRLEPVTAAGPRAPCAAACCTCAGDSLDCGGRGLAALPGDLPSWTRSLNL
SYNKLSEIDPAGFEDLPNLQEVYLNNNELTAVPSLGAASSHVVSFLQHKNKIRSVESGSQLKAYLSLEVLDLSLNN
ITEVRNTCFPHGPPIKELNLAGNRIGTLELGAFDGLSRSLTLRLSKNRI TQLPVRAFKLPRLTQLDLNRNRIRL
IEGLTFQGLNSLEVCLKQRNNISKLTGAFWGLSKMHVLHLEYNLSLEVNSGSLYGLTALHQLHLSNNSIARIHR
KGWSFCQKLHELVLFSNNLTRLDEESLAEISSLSVLRLSHNSISHIAEGAFKGLRSLRVLDLDHNEISGTIEDTS
GAFSGLDSLKLTLFGNKKISVAKRAFSGLEGLEHLNLGGNAIRSVQFDAFVKMKNLKEHIISSDSFLCDCQLKW
LPPWLIGRMLQAFVTATCAHPESLKGQSIFSVPPESFVCDLFLKPQIITQPETTMAMVGKDIRFTCSAASSSSSP
MTFAWKKDNEVLTNADMENFVHVHAQDGEVMEYTTILHLRQVTFGHEGRYQCVITNHFGSTYSHKARLTNVNLP
FTKTPHDITIRTTTMARLECAATGHPNPQIAWQKDGDTDFPAARERRMHVMPDDDVFFITDVKIDDAGVYSCTAQ
NSAGSISANATLTVLETPSLVVPLEDRVSVGETVALQCKATGNPPPRITWFKGDRPLSLTERHHLTPDNQLLVV
QNVVAEDAGRYTCEMSNTLGTERRAHSQSVLPAAGCRKDGITVGIFTIAVVSSIVLTSLVWVCIIYQTRKKSEY
SVTNTDETVPDPVPSYLSSQGTLSDRQETVVRTEGAGPQANGHIESNGVCPRDASHFPEPDTHSVACRQPKLCA
GSAYHKEPWKAIEKAEGTPGPHKMEHGGRVVCSDCNTEVDCYSRGQAFHPQPVSRSQAQPSAPNGPEPGGSDQEH
SPHHQCSRTAAGSCPECQGSLYPSNHDRLTAVKKKPMASLDGKGDSSWTLARLYHPDSTELQFASLTSGSPER
AEAQYLLVSNGLPKACDASPESTPLTGQLPGKQVRVPLLLAPKS

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FIGURE 2183

ACACTCGCTTCTGGAACGTCTGAGGTTATCAATAAGCTCCTAGTCCAGACGCCATGGGTCATTTACAGAGGAGG
ACAAGGCTACTATCACAAGCCTGTGGGGCAAGGTGAATGTGGAAGATGCTGGAGGAGAAACCCTGGGAAGGCTCC
TGGTTGTCTACCCATGGACCCAGAGGTTCTTTGACAGCTTTGGCAACCTGTCCTCTGCCTCTGCCATCATGGGCA
ACCCCAAAGTCAAGGCACATGGCAAGAAGGTGCTGACTTCCTTGGGAGATGCCATAAAGCACCTGGATGATCTCA
AGGGCACCTTTGCCCAGCTGAGTGAACTGCACTGTGACAAGCTGCATGTGGATCCTGAGAACTTCAAGCTCCTGG
GAAATGTGCTGGTGACCGTTTTGGCAATCCATTTTCGGCAAAGAATTCACCCCTGAGGTGCAGGCTTCCTGGCAGA
AGATGGTGACTGGAGTGGCCAGTGCCTGTCTCCAGATAACCACTGAGCTCACTGCCCATGATGCAGAGCTTTCA
AGGATAGGCCTTTATTCTGCAAGCAATACAAATAATAAATCTATTCTGCTAAGAGATCAC

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FIGURE 2184

MGHFT EEDKATITSLWGKVNVEDAGGETLGRLLVVYPWTQRFFDSFGNLSSASAIMGNPKVKAHGKKVLTSLGDA
IKHLDDLKGTFAQLSELHCDKLHVDPENFKLLGNVLVTVLAIHFGKEFTPEVQASWQKMVTGVASALSSRYH

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FIGURE 2185A

TTTTTTTTTTTTTGTAGAAAGGGAATTTTCATCCCAAATAAAAGGAATGAAGTCTGGCTCCGGAGGAGGGTCCCCG
ACCTCGCTGTGGGGGCTCCTGTTTCTCTCCGCCGCGCTCTCGCTCTGGCCGACGAGTGGAGAAATCTGCGGGCCA
GGCATCGACATCCGCAACGACTATCAGCAGCTGAAGCGCCTGGAGAACTGCACGGTGATCGAGGGCTACCTCCAC
ATCCTGCTCATCTCCAAGCCGAGGACTACCGCAGCTACCGCTTCCCCAAGCTCACGGTCATTACCGAGTACTTG
CTGCTGTTCCGAGTGGCTGGCCTCGAGAGCCTCGGAGACCTCTTCCCCAACCTCACGGTCATCCGCGGCTGGAAA
CTCTTCTACAACTACGCCCTGGTCATCTTCGAGATGACCAATCTCAAGGATATTGGGCTTTACAACCTGAGGAAC
ATTACTCGGGGGGCCATCAGGATTGAGAAAAATGCTGACCTCTGTTACCTCTCCACTGTGGACTGGTCCCTGATC
CTGGATGCGGTGTCCAATAACTACATTGTGGGAATAAGCCCCCAAAGGAATGTGGGGACCTGTGTCCAGGGACC
ATGGAGGAGAAGCCGATGTGTGAGAAGACCACCATCAACAATGAGTACAACCTACCGCTGTGGACCACAAACCGC
TGCCAGAAAATGTGCCAAGCACGTGTGGGAAGCGGGCGTGCACCGAGAACAATGAGTGTGCCACCCCGAGTGC
CTGGGCAGCTGCAGCGCGCCTGACAACGACACGGCCTGTGTAGCTTGCCGCCACTACTACTATGCCGGTGTCTGT
GTGCTGTCTGCCCGCCCAACACCTACAGGTTTGGGGCTGGCGCTGTGTGGACCGTGACTTCTGCGCCAACATC
CTCAGCGCCGAGAGCAGCGACTCCGAGGGGTTTGTGATCCACGACGGCGAGTGCATGCAGGAGTGCCCTCGGGC
TTCATCCGCAACGGCAGCCAGAGCATGTACTGCATCCCTTGTGAAGGTCCTTGCCCGAAGGTCTGTGAGGAAGAA
AAGAAAACAAAGACCATTGATTCTGTTACTTCTGCTCAGATGCTCCAAGGATGCACCATCTTCAAGGGCAATTTG
CTCATTAACTACCGACGGGGGAATAACATTGCTTCAGAGCTGGAGAACTTCATGGGGCTCATCGAGGTGGTGACG
GGCTACGTGAAGATCCGCCATTCTCATGCCTTGGTCTCCTTGTCTTCTTAAAAACCTTCGCTCATCCTAGGA
GAGGAGCAGCTAGAAGGGAATTACTCCTTCTACGTCTTCGACAACCAGAAGTGCAGCAACTGTGGGACTGGGAC
CACCGCAACCTGACCATCAAAGCAGGGAAAATGTACTTTGCTTTCAATCCCAAATTATGTGTTCCGAAATTTAC
CGCATGGAGGAAGTGACGGGGACTAAAGGGCGCCAAAGCAAAGGGGACATAAACACCAGGAACAACGGGGAGAGA
GCCTCCTGTGAAAGTGACGTCTGCATTTACCTCCACCACCGTGAAGAATCGCATCATCATAACCTGGCAC
CGGTACCGGGCCCCCTGACTACAGGGATCTCATCAGCTTCACCGTTTACTACAAGGAAGCACCTTTAAGAATGTC
ACAGAGTATGATGGGCAGGATGCCTGCGGCTCCAACAGCTGGAACATGGTGGACGTGGACCTCCCGCCCAACAAG
GACGTGGAGCCCGGCATCTTACTACATGGGCTGAAGCCCTGGACTCAGTACGCCGTTTACGTCAAGGCTGTGACC
CTCACCATGGTGGAGAACGACCATATCCGTGGGGCCAAGAGTGAGATCTTGTACATTTCGACCAATGCTTCAGTT
CCTTCCATTCCCTTGGACGTTCTTTCAGCATCGAACTCCTCTTCTCAGTTAATCGTGAAGTGAACCTCCCTCT
CTGCCCCAACGGCAACCTGAGTTACTACATTGTGCGCTGGCAGCGGCAGCCTCAGGACGGCTACCTTTACCGGCAC
AATTACTGCTCCAAAGACAAAATCCCCATCAGGAAGTATGCCGACGGCACCATCGACATTGAGGAGGTACAGAG
AACCCCAAGACTGAGGTGTGTGGTGGGGAGAAAGGGCCTTGCTGCGCCTGCCCCAAAACCTGAAGCCGAGAAGCAG
GCCGAGAAGGAGGAGGCTGAATACCGCAAAGTCTTTGAGAATTTCTGCACTTCCATCTTCTGTCGCCAGACCT
GAAAGGAAGCGGAGAGATGTCATGCAAGTGGCCAACACCACCATGTCCAGCCGAAGCAGGAACACCACGGCCGCA
GACACCTACAACATCACCGACCCGAAGAGCTGGAGACAGAGTACCCCTTTCTTTGAGAGCAGAGTGGATAACAAG
GAGAGAAGTGTCAATTTCTAACCTTCGGCCTTTCAATTGTACCGCATCGATATCCACAGCTGCAACCACGAGGCT
GAGAAGCTGGGCTGCAGCGCCTCCAACCTTCGTCTTTGCAAGGACTATGCCCGCAGAAGGAGCAGATGACATTCT
GGGCCAGTGACCTGGGAGCCAAGCCTGAAAACCTCCATCTTTTTAAAGTGGCCGGAACCTGAGAATCCCAATGGA
TTGATTCTAATGTATGAAATAAAATACGGATCACAAGTTGAGGATCAGCGAGAATGTGTGTCCAGACAGGAATAC
AGGAAGTATGGAGGGGCCAAGCTAAACCGGCTAAACCCGGGGAACCTACACAGCCCGGATTACAGCCACATCTCTC
TCTGGGAATGGGTCGTGGACAGATCCTGTGTTCTTCTATGTCCAGGCCAAAACAGGATATGAAAACCTTCATCCAT
CTGATCATCGCTCTGCCCCTCGCTGTCTGTGATCGTGGGAGGGTGGTGATTATGCTGTACGCTCTTCATAGA
AAGAGAAATAACAGCAGGCTGGGGAATGGAGTGTGTATGCCTCTGTGAACCCGGAGTACTTCAGCGCTGCTGAT
GTGTACGTTCTGATGAGTGGGAGGTGGCTCGGGAGAAGATCACCATGAGCCGGGAACCTGGGCAGGGGTGCTTT
GGGATGGTCTATGAAGGAGTTGCCAAGGGTGTGGTGAAAGATGAACCTGAAACCAGAGTGGCCATTAAAACAGTG
AACGAGGCCGCAAGCATGCGTGAGAGGATTGAGTTTCTCAACGAAGCTTCTGTGATGAAGGAGTTCAATTGTCAC
CATGTGGTGCATTGCTGGGTGTGGTGTCCCAAGGCCAGCCAACACTGGTCATCATGGAACCTGATGACACGGGGC
GATCTCAAAAGTTATCTCCGGTCTCTGAGGCCAGAAATGGAGAATAATCCAGTCCTAGCACCTCCAAGCCTGAGC
AAGATGATTGAGTGGCCGAGAGATTGCAGACGGCATGGCATACCTCAACGCCAATAAGTTCTGTCACAGAGAC
CTTGCTGCCCGGAATTGCATGGTAGCCGAAGATTTCACAGTCAAAATCGGAGATTTTGGTATGACGCGAGATATC
TATGAGACAGACTATTACCGGAAAGGAGGCAAAGGGCTGTGCCCCGTGCGCTGGATGTCTCTGAGTCCCTCAAG

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FIGURE 2185B

GATGGAGTCTTCACCACTTACTCGGACGTCTGGTCTTCGGGGTCGTCCCTCTGGGAGATCGCCACACTGGCCGAG
CAGCCCTACCAGGGCTTGTCCAACGAGCAAGTCCTTCGCTTCGTATGGAGGGCGGCCTTCTGGACAAGCCAGAC
AACTGTCCTGACATGCTGTTTGAAGTATGCGCATGTGCTGGCAGTATAACCCCAAGATGAGGCCTTCCTTCCTG
GAGATCATCAGCAGCATCAAAGAGGAGATGGAGCCTGGCTTCCGGGAGGTCTCCTTCTACTACAGCGAGGAGAAC
AAGCTGCCCCGAGCCGGAGGAGCTGGACCTGGAGCCAGAGAACATGGAGAGCGTCCCCCTGGACCCCTCGGCCTCC
TCGTCTCTCCCTGCCACTGCCCGACAGACACTCAGGACACAAGGCCGAGAACGGCCCCGGCCCTGGGGTGCTGGTC
CTCCGCGCCAGCTTCGACGAGAGACAGCCTTACGCCCACATGAACGGGGGCCGAAGAAGAGCGGGCCTTGCCG
CTGCCCCAGTCTTCGACCTGCTGATCCTTGGATCCTGAATCTGTGCAAACAGTAACGTGTGCGCACGCGCAGCGG
GGTGGGGGGGGAGAGAGAGTTTTAACAATCCATTACAAGCCTCCTGTACCTCAGTGGATCTTCAGTTCTGCCCT
TGCTGCCCCGCGGGAGACAGCTTCTCTGCAGTAAAACACATTGGGATGTTCCCTTTTTTCAATATGCAAGCAGCTT
TTTATTCCTGCCCAAACCCCTTAAGTACATGGGCCTTTAAGAACCTTAATGACAACACTTAATAGCAACAGAGC
ACTTGAGAACCAGTCTCCTCACTCTGTCCCTGTCTTCCCTGTCTCCCTTTCTCTCTCCTCTCTGCTTCATAAC
GGAAAAATAATTGCCACAAGTCCAGCTGGGAAGCCCTTTTTATCAGTTTGAGGAAGTGGCTGTCCCTGTGGCCCC
ATCCAACCACTGTACACACCCGCCTGACACCGTGGGTCAATTACAAAAAACACGTGGAGATGGAAATTTTTACCT
TTATCTTTACCTTTCTAGGGACATGAAATTTACAAAGGGCCATCGTTTCATCCAAGGCTGTTACCATTTTAACGC
TGCCTAATTTTGCCAAAATCCTGAACCTTTCTCCCTCATCGGCCGGCGCTGATTCCTCGTGTCCGGAGGCATGGG
TGAGCATGGCAGCTGGTTGCTCCATTTGAGAGACACGCTGGCGACACACTCCGTCCATCCGACTGCCCTGTCTGT
GCTGCTCAAGGCCACAGGCACACAGGTCTCATTGCTTCTGACTAGATTATTATTGGGGGAAGTGGACACAATAG
GTCTTTCTCTCAGTGAAGGTGGGGAGAAGCTGAACCGGC

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FIGURE 2186

MKSGSGGGSPTSLWGLLFLSAALSLWPTSGEICGPGIDIRNDYQQLKRLNCTVIEGYLHILLISKAEDYRSYRF
PKLTVITEYLLLFVRVAGLESIGDLFPNLTVIRGWKLFYNYALVIFEMTNLKDIGLYNLRNITRGAIRIEKNADLC
YLSTVDWSLILDAVSNNYIVGNKPPKECGDLCPGTMEEEKPMCEKTTINNEYNYRCWTTNRCQKMCPSTCGKRACT
ENNECCHPECLGSCSAPDNDTACVACRHHYYAGVCVPACPPNTYRFEGWRCVDRDFCANILSAESSDSEGFVIHD
GECMQECPSGFIRNGSQSMYCIPCEGPCPKVCEEKKTIDSVTSAQMLQGCTIFKGNLLINIRRGNNIASELE
NFMGLIEVVTGYVKIRHSHALVSLSLKLNRLILGEEQLEGNYSFYVLDNQNLQQLWDWDHRNLTIKAGKMYFAF
NPKLCVSEIYRMEEVTGKGRQSKGDINTRNNGERASCESDVLHFTSTTTSKNRIITWHRYRPPDYRDLISFTV
YYKEAPFKNVTEYDGDACGSNSWNMVDVLPNPKDVPEGILLHGLKPWTQYAVYVKAVTLLTMVENDHIRGAKSE
ILYIRTNASVPSIPLDVLSASNSSQLIVKWNPPSLPNGNLSYYIVRWQRQPQDGYLYRHNYSKDKIPIRKYAD
GTIDIEEVTENPKTEVCGGEKGPCCACPKTEAEKQAEKEEAEYRKVFENFLHNSIFVPRPERKRRDVMQVANTTM
SSRSRNTTAADTYNITDPEELETEYPPFESRVDNKERTVISNLRPFTLYRIDIHSCNHEAEKLGCSASNFFVART
MPAEGADDIPGPVTWEPRPENSIFLKWPEPENPNGLILMYEIKYGSQVEDQRECVSRQEYRKYGGAKLNRLNPGN
YTARIQATSLSGNGSWTDPVFFYVQAKTGYENFIHLIIALPVAVLLIVGGLVIMLYVFHRKRNN SRLNGNVLYAS
VNPEYFSAADVVPDEWEVAREKITMSRELQGSFGMVYEGVAKGVVKDEPETRVAIKTVNEAASMRERIEFLNE
ASVMKEFNCHHVRLLGVSQGOPTLVIMELMTRGDLKSYLRLPEMENNVLAPPSLSKMIQAGEIADGMAY
LNANKFVHRDLAARNCMVAEDFTVKIGDFGMTRDIYETDYRKGGKGLLPVRWMSPESLKDGVFTTYSDVWSFGV
VLWEIATLAEQPYQGLSNEQVLRVMEGGLLDKPDNCPDMLFELMRMCWQYNPKMRPSFLEIISSIKEEMEPGFR
EVSFYIYSEENKLPEPEELDLEPENMESVPLDPSASSSSSLPDRHSGHKAENGPGPGVLVLRASFDERQPYAHMN
GGRKNERALPLPQSSTC

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FIGURE 2187

TAGCACTTCATAGACTGCTATCACGCATTCAATTTTTACTAGTACCTATTGAACACTAAGTTCCAGGCACTGGGCT
AGGCACTGGGATGGTGTGGTGAGCAAAACTGACCAGTCCTGCCGTGGAGTTTGCTGGGGGAGACACATGTTACT
CAAAGAATCACACTAAGGATAGCAATTTATCTCAAAGCTGCAAGTTCCTGCCATCTACATGTGCCCAGAGTCCCC
AAAATTGAGTGTCAAACAGAGGCTGGGTGACCTCCTGTCCAGGATTGCTCTCATCGTATGAATCGAAGTTTTTCAT
CTTAACGTGTTTTTTTTCTCCTGAGAATAGGCCAACCAATCAATGGCTCAGACAGATAAGCCAACATGCATCCCGC
CGGAGCTGCCGAAGATGCTGAAGGAGTTTGCCAAAGCCGCCATTAGGGTGCCAGCCGAGGACCTCATCCAGTGGG
CAGCCGATTATTTTGAGGCCCTGTCCCGTGGAGAGACGCCCTCCGGTGAGAGAGCGGTCTGAGCGAGTCGCTTTGT
GTAACCGGGCAGAGCTAACACCTGAGCTGTTAAAGATCCTGCATTCTCAGGTTGCTGGCAGACTGATCATCCGTG
CAGAGGAGCTGGCCAGATGTGGAAGTGGTGAATCTCCCAACAGATCTGTTAATAGTGTGATGAATGTGGGTC
GCTTCACGGAGGAGATCGAGTGGCTGAAGTTTTTAGCCCTTGCTTGCAGCGCTCTGGGAGTTACTATTACCAAAA
CTCTCAAGATAGTGTGTGAGGTCTTATCATGTGACCATAATGGTGGGTGCCCCGGATCCCGTTCAGCACCTTCC
AGTTTCTCTACACGTATATTGCCAAAGTGGATGGGGAGATCTCTGCATCACATGTCAGCAGGATGCTAAACTACA
TGGAACAGGAAGTAATTGGCCCTGATGGTATAATCACAGTGAATGACTTTACCCAAAACCCAGGGTTCAGCTGG
AGTAAAGCACAAATTTTGGCAATTTTAAAGGAAGATACAGAGATGATTGTACTTCAGAATGACTGAAACCCATAT
ACCACCCAAAATCCATTTTCTTGTAACACTGGTACACACTAATAAACAATTAAAAAAAAAAAA

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FIGURE 2188

MAQTDKPTCIPPELPKMLKEFAKAAIRVQPQDLIQWAADYFEALSRGETPPVRERSERVALCNRAELTPELLKIL
HSQVAGRLLIIRAEELAQMWKVVNLPTDLFNSVMNVGRFTEEIEWLKFLALACSGVTTITKTLKIVCEVLSCDHN
GGSPRIPFSTFQFLYTYIAKVDGEISASHVSRMLNYMEQEVIGPDGIITVNDFTQNPRVQLE

[illegible]

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FIGURE 2190A

AAAATACTTGCCCTTTGGAAAAAATCATTCTGGCGTCCACATTGAGACTGGTTTAGAGGAGAGTAATACTGAAG
ACATGCCCCCGAATCAAGGTAGCAATTGCGGAGATGAAAAGAAATGAGTCCAAAAGATGCTTAAATGTGACCA
TTGAACAGGATTTGACTCATTGGATATGAGGCCATGGAGCAGTGTCTGGCTAGGTGGATGGATGTTGGTGCTGTT
TAGTTAAATAGGAACTGGAAGAGAAGCAGGCTTGCAAGAATGGTAATATTTTGGACGTGTAACCTGTCTGGCAA
GATGTTGAAGAGGTAAAGGAGGCAGCACAGCATCATGGGCCCTGGAGGCAGAAGCCGCTTTGATTTACTCAGAAC
ACCAAATCAGTCTCCATTTCTTGACTCAGACTACACCAAGAGATTGCTTCCTTCCCTGTGCTTCCCTGGCCACT
TGCTACTCTAGCTAGGAAGATCTGCCTCCCTTAGCTGAAGTCTAAGATGTGTAGCTTATTGATGCCTCTCCTCTT
CTTGTTCTGCTGTTGCTGAATATAATGGGGATGCCAGGCAGACATACCATTCAACTTGAATCTTCCCTACCCAC
TTTGTATAGTCTTACATGTCATTGATACCTTGTTTTCTGGTACGCCTAAAAGGAGTAGAAGTCAAGTGGTATTT
AAAAGCTTTAAGAAAAGTCAAATTTTTACTTTTTCTTCCCATCTGAGGCATGGATTTATTTCTTTTTAAAGAA
ATCCAAATTTTTAAAGAGGGATCTTATTTTTAAACGAAGATCGATAATATCTACTATGTACTAAATGTCATT
CTTTAAAGTTGTTCCCTCATAATTTAGTAAATTACTTCTTTTTTAAAAAAGGAAAGAAAGAGTGTGTCTT
ACAGGCTAACATCACAACAATAAGTTTCTTCTCATCCTCCTATTTATAAACTAGTGTGACTGTCTCTGAGC
ACAGTATTAAACCTGGACAGGGAGAGGGAGGGTGTAGAGAATGAGAGGGAAAGAGAGAGAATACCTACATATAA
GGTGACCTAAAGAAAAGCCTTTCACCTTCGGAAGATCTTTCATTTTCATTTTCTTTTTCAAACACCAACT
TGTACCAGAGGGAAGATCTTTTTTAAAGCGTTTCACTAAAATTTGTAAGGAAATAATGAGCTAGATAAAATAT
TACAGTGTATTATTAATGAATTTACTCATATTTAAATAATATCTAAAAAGAGTAATTTAGGAATATTGAGGCAA
TGAGACTTGAAGGTTATAAATAGTGGCAGTGAGAAAAGGAATATTATAGATAAGCTGTTGAAAAGAAAAGATGCT
AAGTTTTCTAGTGCTTCTCTGTTTCCAAGGGATTATAGAAATCGGAGTTTGTGTTGACCTGTTTCACAGGCATC
TCTTTGTGGACTCATTGTGTCTCTTCTTAGGCTAATAGTCACCATTTATCATGGACGGTGTGATGAGTGTG
AAGCACACTTAACCTGCTTCGTCAGAGGGTACTTGGCATCACCGGTGCACAGCTGGTGTCTAGCAGGAGACTAA
CTAGCTGACACACCGTGCTTTGTTAGCCTAATAATCTTATTTGTTAAACTTGCCATTTGTGGATTTTTCTATT
TTACCCCATATAAACTTCTTATTGAGATCAGATGACTTCTGAATAGCATTGCTGTATTTTCCAAGGTAAAGA
ATATCTTTTTCAGATTTTTCTTCTTCTTTAATGTCAGAAATAGAAGAAATCTTTCTACCGACCTTGTGCCAG
GAGATGTCATGGTCATTCCATTAAATGGGACAATAATGCCTTGTGATGCTGTGCTTATTAATGGTACCTGCATTG
TAAACGAAAGCATGTTAACAGGAGAAAGTGTCCAGTGACAAAGACTAATTTGCCAAATCCTTCAGTGGATGTGA
AAGGAATAGGAGATCAATTATATAATCCGGAACACATAAACGACATACTTTGTTTTGTGGGACAACCTGTTATTC
AGACTCGTTTCTACACTGGAGAACTCGTCAAAGCCATAGTTGTAGAACAGGATTTAGTACTTCCAAAGGACAGC
TTGTTCTGTTCCATATTGTATCCCAAACCACTGATTTTAACTCTACAGAGATGCCTACTTGTCTTACTATGTC
TTGTGGCAGTTGCTGGCATTGGGTTTATCTACACTATTATTAATAGCATTTTAAATGAGGTACAAGTTGGGGTCA
TAATTATCGAGTCTCTTGATATTATCACAATTACTGTGCCCCCTGCACCTTCTGCTGCAATGACTGCTGGTATTG
TGTATGCTCAGAGAAGACTGAAAAAATCGGTATTTCTGTATCAGTCTCAAAGAATAAATATTGTGGACAGC
TCAATCTTGTGTTGCTTTGACAAGACTGGAACCTCTAACTGAAGATGGTTTAGATCTTTGGGGGATTCAACGAGTGG
AAAATGCACGATTTCTTTACCAGAAGAAAATGTGTGCAATGAGATGTTGGTAAAAATCCCAGTTTGTGCTTGTA
TGGCTACTTGTCAATCACTTACAAAAATGAAGGAGTGCTCTCTGGTGATCCACTTGATCTGAAAATGTTTGAGG
CTATTGGATGGATTCTGGAAGAAGCAACTGAAGAAGAAACAGCACTTCATAATCGAATTATGCCACAGTGGTTC
GTCCTCCCAAACAACTGCTTCCCTGAATCTACCCTGCAGGAACCAAGAAATGGAGCTGTTTGAACCTCCAGCTA
CTTATGAGATAGGAATTGTTCCGAGTTCCCATTTTCTTCTGCTTTGCAACGTATGAGTGTGGTTGCCAGGGTGC
TGGGGGATAGGAAAATGGACGCCTACATGAAAGGAGCGCCGAGGCCATTGCCGGTCTCTGTAAACCTGAAACAG
TTCTGTGCGATTTTCAAACGTTTGGAAAGACTTCACTAAACAGGGCTTCCGTGTGATTGCTCTGACACAGAA
AATGGAGTCAAAACCTGACATGGCATAAAGTACAGAATATTAGCAGAGATGCAATTGAGAACAACATGGATTTTA
TGGGATTAATTATAATGCAGAACAAATTAAAGCAAGAACCCCTGCAGTACTTGAAGATTGTCATAAAGCCAACA
TTCGCACCGTCATGGTTCACAGGTGACAGTATGTTGACTGCTGTCTCTGTGGCCAGAGATTGTGGAATGATTCTAC
CTCAGGATAAAGTGATTATTGCTGAAGCATTACCTCAAAGGATGGGAAAGTTGCCAAAATAAATTGGCATTATG
CAGACTCCCTCACGCAGTGCAGTCAATCAGCAATTGACCCAGAGGCTATTCCGGTTAAATTGGTCCATGATA
GCTTAGAGGATCTTCAAATGACTCGTTATCATTTTGAATGAATGGAAAATCATTCTCAGTGATACTGGAGCATT
TTCAAGACCTTGTTCCTAAGTTGATGTTGATGGCACCCTGTTTCCCGTATGGCACCTGATCAGAAGACACAGT
TGATAGAAGCATTGCAAAATGTTGATTATTTTGTGGGATGTGTGGTGATGGCGCAAAATGATTGTGGTGCTTTGA

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FIGURE 2190B

AGAGGGCACACGGAGGCATTTCCCTTATCGGAGCTCGAAGCTTCAGTGGCATCTCCCTTTACCTCTAAGACTCCTA
GTATTTCCGTGTGCCCCAACCTTATCAGGGAAGGCCGTGCTGCTTTAATAACTTCCTCCTGTGAATTAGCACTAT
TTTCTATAGTTACTTATTCTCTGGATCATTTTATAATTTCCATATTAATTTCAAGTATGCTCGTGTATTCTTCA
GTGATTTCCACAATTGTGCATTTTATTCTTTGGTTTAAAGTACTGAAGCATATAATGAAAGTAATTGCTAAGTAGC
AGCTTAAAAATTCAATTATCCGATTGTATTTAACATCTTTAAGAGCATGATCATAAAGAGCTATTTTTGACACCC
CCCCCCCACTTTTTTAACATTTAGAGTTAGTAAGGGTTTTATATCTCTTCTGTCCATATTGTTTTCAAAGGAATG
AGGTGTTTAGGTGGCTGGAAAAGCATTGTAGGAAGTTAGATTTGAATATAGACAAGGTGGGTTATTACAGTTGA
GAATGTTATTTGAAGAATGCCTGTGAAGCCAGGTGTGGGTTCTACTCAGTGCCATAGATAGACTGAGTCTTCTCT
CGTAGGTTACCATTACATAGTAATTTTGATTCTGAATTTACATTAAATTATTTGAGTTTATACAGACCTAAATT
TTAAATCTGTACATATATTATTTTGATGTATTAAGATGAATATTGCTGATTTAAATTTTATTTATGCACATACT
TAAAGGACAGAAATGCTGGGAAAGTAATTGTTAAATAATGATATGTAACTTTTTAACTTTTTAAATAAATAACA
AGATTTTTAATGTGTGTCTCCCTCAGGGTTGTTTAAAGTTTTTTTTCTCCCTCAAGTATAAATAGTGGTAACTAT
ATGTTTTGTATCTTCTAGCACCAACTGCTGTAAAGCAATGCTGCAAATAATGCTTGAATACAAGTGGCTAAGCCA
ACAACAGAATAAATACTTTTATAGTAGTTTATAATCCTGAAATTCGAAAGCTTTCCCAATTGCACTTGCACTCTA
AACAAAACCTGTTGCAGTTTTTACTCTATTTATTTTGTTCCTCATGTTTATGAAAGTCCTGCACAGTTTCAAAGGC
ATGGTAAATAATATATCAATGTTTATGTAGTCTGTTACAGAAACAGCTATAGATAACATTATCCAGTGAAGAGCA
AAATTCAGCTTTAGAAAATATTCATGCATGCAATTTTGACATATCTAAAAATAGGTTTTTGTATATTTATGGTG
GGAGGTGGTTGGGAACTTTTAACAAAATGGGGTGTTAATTTTTGTACAGTCTGTGGGCATTACACATTTTAAAT
GTATTAATAATTTGGTAATTATGTGTACATTAAATTAATAAAAGTTACTTCTAGTTATGATTGTGAATTCCTTAA
GACCTTGGATTTTTTTAAGTAACTTTATATCAGAAATGATACGTCATCTTTATATTTTTAAATTTGTATTGCTGC
TCAAGAATGGTACCCTCTTGTCAAAAAGGCATACATTCAATTTGTACATTCAGCATTGTAATAATCTTATGAA
ACCTTTTTTGATTGAAGCTATTCAAATAAAAATTTTAAATGAATGAAATAA

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FIGURE 2191

MSEIEEIFSTDLPDVMVIPLNGTIMPCDAVLINGTCIVNESMLTGESVPVTKTNLPNPSVDVKIGDQLYNPE
THKRHTLFCGTTVIQTRFYTGELVKAIVVRTGFSTSKGQLVRSILYPKPTDFKLYRDAYLFLCLVAVAGIGFIY
TIINSILNEVQVGVIIIESLDIITITVPPALPAAMTAGIVYAQRRLKKIGIFCISPQRINICGQLNLVCFDKTGT
LTEDGLDLWGIQRVENARFLSPEENVCNEMLVKSQFVACMATCHSLTKIEGVLSGDPLDLKMF EAIGWILEEATE
EETALHNRIMPTIVVRPPKQLPESTPAGNQEMELFELPATYEIGIVRQFPFSSALQRMSVVARVLGDRKMDAYMK
GAPEAIAGLCKPETVPVDFQNVLEDFTKQGFRVIALAHRKLESKLTWHKVQNISRDAIENNMDFMGLIIMQNKLK
QEPPAVLEDLHKANIRTVMVTGDSMLTAVSVARDCGMILPQDKVIIAEALPPKDGKVAKINWHYADSLTQCSHPS
AIDPEAIPVKLVHDSLEDLQMTYHFAMNGKSFSVILEHFQDLVPKMLHGTVFARMAPDQKTQLIEALQNVDYF
VGMCGDGANDCGALKRAHGGISLSELEASVASPFTSKTPSISCVPNLIREGRAALITSSCELALFSIVTYSLDHF
IISILISSMLVLFFSDFHNCAFYSLV

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FIGURE 2192

CCTGCCGTTGGCGGCCTGAGTCCGCAGCGCCCTGCKCCACCCGCCCCGGACGTGGGGCCCAAGCCCCCGTGAAGA
TGGTGTCCTGGATGATCTCCAGAGCCGTGGTGCTGGTGTTTGGGAATGCTTTATCCTGCATATTATTCATACAAAG
CTGTGAAAACAAAAAACGTGAAGGAATATGTTTCGATGGATGATGTACTGGATTGTTTTTGCTCTCTATACTGTGA
TTGAAACAGTAGCCGATCAAACAGTTGCTTGGTTTCCCCTGTACTATGAGCTGAAGATTGCTTTTGTGCATATGGC
TGCTTTCTCCCTATACCAAAGGAGCAAGTTTAATATATAGAAAATTCCTTCATCCACTTCTTTCTCAAAGGAAA
GGGAGATTGATGATTATATTGTACAAGCAAAGGAACGAGGCTATGAAACCATGGTAAACTTTGGACGGCAAGGTT
TAAACCTTGCAGCKACTGCTGCTGTACTGCAGCAGTAAAGAGCCAAGGAGCAATAACTGAACGTTAAGAAGCT
TCAGTATGCATGATTAAACAACTATCCAAGGTGATGAGCCTGTGGGACAAAGACCATAACCAACCTCTACCAGAAG
CMAAAAAGAAAAGTARCCAGCCCCCAGTGAATCAGCMGGTTATGGAATTCCACTGRAAGACGGRGATGWGRAAAC
AGATKAAGAAGCAGAGGGGCCATATTCAGATAATGAGATGTTAAACACACAAAGGGCTTCGAAGATCGCAAAGCAT
GAAATCTGTGAAAACCAACAAAGGCCGCAAAGAGGTGCGGTACGGGTCATAAAATACAAAGTGAAGAAACGACC
ACAAGTGATTTTTTAGTCATCTACACGTCAAATATCCCAAGACAGATTATGCTAAATACATCGACTTCATCTTCT
AACATGATATATTCAGGATTTACACATTAAATGATTATTTAAATTGTGGCAGTGATGGGGTTTACTTTCATGAA
TTTAAATTGTTTTTATTTCTGTAACAATTGCTTCCAAATATTGACTACTAAAGGCAGTTCTGCAAGATGTACTA
AATATGTATATTAGAAATTATAGAAAATCATGTTGTCCGTTTTCAAATTCATCAACAGCCTAGAGTGCCCTGAGAT
ATAAGATGAAACACAAATCCACAGTATACTTGAAAGGAGCCTTTTTACGGTTCAGGATAAATCAGCCTTGTGAT
GTACTGTGTTTACCTCCTTTTGTGTTGTATCTGGTAATTAAAXTAGGGCCAGATTAGCAAGTGACATXACAA

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FIGURE 2193

MVSWMISR AVL VFGMLYPAYYSYKAVKTKNVKEYVRWMMYWIVFALYTVIETVADQTVAWFPLYELKIAFVIW
LLSPYTKGASLIYRKFLHPLLSSKEREIDDIYVQAKERGYETMVNFGROGLNLAATAAVTAAVKSQGAIATERLRS
FSMHDLTITIQGDEPVGQRPYQPLPEAKKKSXQPPVNQXVMEFHXTXMXKQXKKQQRGHIQIMRC

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FIGURE 2194

TCTACCTCCTAGCAAGTACTTTTGTCTTGATCCTCACTGAGAAGGCCCCAGGGCAGCGGTCTTCTCCATCTCCGCT
GTTTTGGGGTCTTAGGGTACAGCCCAGGCGGTCACTGCCCACCTGCCAGGCTGCAGGGACAGTTGGGTGTGAGAA
TAACACTGGCTTTGGGTAGTGCCATGGCCAGGAGTGGGTTTCCCTGCGTCTCCTCGTCCCAGGGCGCCTGGGTC
CTCCCAGCTGACGGCAGTAAATCCACAGTGAGTTGGGGCGACTGTGAAACTGGAATGCTGTTACTTTGATAATTA
CTTTCCAGCAGGTGTTTTCTTTCACAATGGTTTTGTTTCTTTCCTTCTGATCTGAGAAGACATGAACGTTTTCTC
TTCACCGCCGTGGGGTGATTGACTGGTCCCCATGGGCTGCTGGAAAGGCCCGGAGATGCACTGTGGCCTGGG
GCCATCAAGATCAAAGAACCAGGAGGCCTGGGAGATGCAGCTGGATGGGGCGGCCTGCAGACCCTGCCAGGGGGT
TTGAGGACCCTCCCAGGTTTCCCACTGCGGAACAGGAGTGACTCTGGCTGCCAAGATACCTTCATGGTGTTTCATG
ACAAGTGGAATCATTATTTTCAACCATTGAAGGGGGATGCAGGCAAGACACCTTCCCAGCTGCTCCTAGAGGGGA
CAAGCCAGGCCCTCTCTGCAGTCTCGGCAGCTCCGGAAGGACACAGTCAGGGGCCGGGCAAACACTTTGGCCAC
AGCCCCAAACAAGCGCCACCGTGGGAGAGGAGAGGCTGCTGTCACTGGTACCGGATGCAGACCCACCCTGTCTG
CAGGCCACCCCACTCCCTGCAGCTTTGAGGCTGGCGGGGTCTGCTCCTGGGAATGGGGTGGGAGCCACAGGGA
CGACCCGGGGCGGGCTGATGTCTTCTTGGGGGCAGACCAGAGAGCTCAAGTTTCAGAGTCAGAATTAGGCACTT
GGAGCGTTTTTGTGGCTTGCACTTCTTATTTTCTTATTTTAGAGCGCTTAAAAATCCGGAAAAATGGGGTTT
AAAAGAACTGTCTCTTTCAGTCTACATTTTGTTTAATACGCTTGAGCAATAAACGCTGACTTGCAGACGTGAAA
AAAAAAAAAAAAA

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FIGURE 2195

MHLWPGAIIKEPGGLGDAAGWGLQTLPGGLRTLPGFPLRNRSDSGCQDTFMVFMVMTSGIIIFNH

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FIGURE 2196

CCCAAGGCTGCCCCCTCGGTCACCTCTGTTCCCACCCTCCTCTGAGGAGCTTCAAGCCAACAAGGCCACACTGGTG
TGTCTCATAAGTGACTTCTACCCGGGAGCCGTGACAGTTGCCTGGAAGGCAGATAGCAGCCCCGTCAAGGCGGGG
GTGGAGACCACCACCCCTCCAAACAAAGCAACAACAAGTACGCGGCCAGCAGCTACCTGAGCCTGACGCCTGAG
CAGTGGAAGTCCCACAAAAGCTACAGCTGCCAGGTCACGCATGAAGGGAGCACCGTGGAGAAGACAGTTGCCCT
ACGGAATGTTCATAG

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FIGURE 2197

PKAAPSVTLFPPSSEELQANKATLVCLISDFYPGAVTVAWKADSSPVKAGVETTTPSKQSNNKYAASSYLSLTPE
QWKSHKSYSCQVTHEGSTVEKTVAPTECS

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FIGURE 2198

AGCACTTTTCATTGGACGAGCCAATCATTTCTTCACTGTAAC TGACCCAGGAACATTCTGTTAACCAACGAACAA
CTCGAGAGTGCGAGAAAAATAGTACATGATTACAGGCAAGGAATTGTTCCCTCCTGGTCTTACAGAAAAATGAATTG
TGGAGAGCAAAGTACATCTATGATTAGCTTTTCATCCTGACACTGGTGAGAAGATGATTTTGATAGGAAGAATG
TCAGCCCAGGTTCCCATGAACATGACCATCACAGGTTGTATGATGACGTTTTACAGGACTACGCCGGCTGTGCTG
TTCTGGCAGTGGATTAAACAGTCCTTCAATGCCGTGCTCAATTACACCAACAGAAGTGGAGACGCACCCCTCACT
GTCAATGAGTTGGGAACAGCTTACGTTTTCTGCAACAACCTGGTGCCGTAGCAACAGCTCTAGGACTCAATGCATTG
ACCAAGCATGTCTCACCCTGATAGGACGTTTTGTTCCCTTTGCTGCCGTAGCTGCTGCTAATTGCATTAAATATT
CCATTAATGAGGCAAAGGGAACCTCAAAGTTGGCATTCCCGTCACGGATGAGAATGGGAACCGCTTGGGGGAGTCG
GCGAACGCTGCGAAAAAAGCCATCACGCAAGTTGTCGTGTCCAGGATTCTCATGGCAGCCCCCTGGCATGGCCATC
CCTCCATTCAATTATGAACACTTTGGAAAAAGAAAGCCTTTTTGAAGAGGTTCCCATGGATGAGTGCACCCATTCAA
GTTGGGTTAGTTGGCTTCTGTTTGGTGTTTGTACACCCCTGTGTTGTGCCCTGTTTCTCAGAAAAAGTTCCATG
TCTGTGACAAGCTTGGAGGCCGAGTTGCAAGCTAAGATCCAAGAGAGCCATCCTGAATTGCGACGCGTGTACTTC
AATAAGGGATTGTAAAGCAGGGAGGAAACCTCTGCACTCATTCTGCCACTGCAAAGCTGGTGTAGCCATGCTGG
TGAGAAAAATCCTGTTCAACCTGGGTTCTCCAGTTACGGAACCTTTTAAAGATCCACATTAGCCTTTTAGAAT
AAAGCTGCTACTTTAACAGAGCACCTGGCGTGGGCCAAGTGCTGATACTCCCTTACACTGAATCATGTTATGAT
TTATAGAAATACCTTTCTGTAGCTTTTATAGTCATTGTTTTCAAAGACGATATACCAGCCCTCACCCAGGTTT
TAAAAAGCACTGGTAGGCATAGAATAGGTGCTCAGTATATGGTCAGTAAATGTTCTATTGATTATCAATCAGTG
AAAAAAGAAATCTGTTTAAATACTGAATTTTCACTCTCACTCCCATTGCAATCAAGGAGATCTCAGCAGTGAAC
TGGGAAAATACAAAAGCTCTGGGCTAATCTATAAAAACCTTACCCTGAAATATTAAGGGCAGTTTGCTTCTAGITT
GGGGATTGCGCTAGCCCAATGAAGGTGATGAAGCTTTTGGATTGGAGGGTAAAGCTCCTTCACACCCCTTCCA
AAAGTCAGTCACAGACCCTGCAACATGCCTTCCCTGCTGGATCATTATATACATTAGATTGTGAGTGGATTGC
CTTGGTTGACTTTTAATTTATTGTTTTTGTCTTATAAAGATGATAATCTTACCTTGCAATTATTGACTTTATA
TTCAATTATTTACATCAAATAATGAAATAACTGAAATGTACAAATGTCAAATTTTGAAGTATATTCAATACCAA
TGCTGTATGAGTGGGCTGAATCCAGTTCATTGTTTTTTTTTGGTAAGAAGTGAGACTACAGTTCCAGCTACCTA
CATGTCTTTTCTGTATCCTTATAGATCTCTTGGCTTTTCAAGAGATACAGTGATAATGTGTGTATGAATCAG
TCACAATGAATTTTACTTGAATATTGTATGTTGCATTCCACTTCATTGAAAATAATGAAACCATGTACCACTGT
TTACATCATCTGTAGTGATTTCATAGATAATATATTTAATATGACAGATTATGTTTCAACTCTGTAGATGTTTAA
CGTCATAGACAGTTGGCCCTCTGTATCCGTGAGCTCTATATCTGTGAATTCAACCAAGTTTGGATGGAAAAATTT
TTTTTTTTTTTTTTTTTGGAGACGGAGTCTCGCTCTGTCAACCCAGGCTGGAGTGCAGTGGCGTAGTCTCGGCTCA
CTGCAAGCTCCGCCTCCTGGGTTACGCCGTTCTCCTGCCTCAGCCTCTCTGAGAAGCTGGGACTACAGGCGCCC
GCCACCACGCCCCGCTAATTTTTTGTATTTTTTAGTAGAGACGGGGTTTCACTGTGGTCTCGATCTCCTGACCTC
GTGATCCGCCCGCTTGGCCTCCCAAGGTGCTGGGATTACAAGCGTGAGCCACCGCACCCGGCTGAAAAATATT
TCTAAAAAGATAAAAAATATACATAACGATGAAAAATAATACAAATTTAAAAACCAATACAGTATAACAACATT
TACATAGTGCTTACATTGTATTAGGTGTTATAAGCAATCTAGAGATGATTTAGCAAGTATACAGGAGGATGTGCC
TAGGTTATATGCAAATACTGTGCCATTTTATATCAGGAACCTTGAGCATCTGCAGATATTGGTATCGGAGGGCGGT
CCTGGAACCAAGCATCCACGGATACTGAGGGGTGACATTTTCAAGAGTGTAGATCATTGTATTAGAGATTGTAA
ATGAAAAAAATATAGAACTATTTAGTTTTGGTAGATTTTTTCTGACAATGTGACCAGACTGAATTTCTCAT
AAAGAAAAAATGGCGTGCCTTGTGTCTGTGTTTCTCTTTTCTGAAAGGATTAATAGATCTGAAGCTTTGGGCC
ACTTAGAGCCTTAAAAA

2421/2682
FIGURE 2199

MILIGRMSAQVPMNMTITGCMMTFYRTTPAVLFWQWINQSFNNAVVNYNRSGDAPLTVNELGTAYVSATTGAVAT
ALGLNALTKHVSPLIGRFVPFAAVAAANCINIPLMRQRELKVGIPVTDENG NRLGESANAAKQAITQVVSRILM
AAPGMAIPPFIMNTLEKKAFLKRFPWMSAPIQVGLVGFCLVFATPLCCALFPQKSSMSVTSLEAELQAKIQESH
ELRRVYFNKGL

2422/2682
FIGURE 2200

GCGAAAGAGAAAAAGGCTGGAGCTCCCGCCCCGGGGCTGTCAGATGGCTTGGGTTTCTGCGACGCGATTGGCTC
GCGGAGGGCAGAAATTACTCAGCAAACATGACTATTATTAGCTGCTTAGCAACAGCTCACCAAAAGTAGAGAGACC
ACCCAGGTAGGCAACCCAGTGTGTGCATCCTCGGCTTCGGGGCAGCCTCTGAGAGCGCCAACCTTCTCGCATGCA
ATACTTCCATTAAGGAATGCTCCCCCTCCTTCTCTCTTATTCTTTTCTTTTCAACAGTGTCTTCTTTTTGTGG
GATGCCTTTGGCGGCACACACGCGCGCGCASGCACACACGAACATTTCCTCGCGGTAGACACGGGGGGAAAT
GTWATATTTTTTTAAAGCGCTTAAACAATTTCTGAAATTCCTCAAAGAAAAGCCTTTCAGARGCACCTTGGCCTCA
AGCTGCAACAAATACTGGGARGTCCGGCTCGCATTCCCAGGCCTGCACCAATAATGACAGCGTCTGGATARTGC
GCCAGTGTGTGCCAGATTTTTTTTTCTCTCTCTTTTCTTTTATAACTAAAGGGAAGACTTAGGCTCTTGCAGG
GAACAACGCCTCGCATTAAAGATAAACAGAATGGAAAGTTAAAGAGGAAAGCAAGGACGTTGGGAAAAGCCATCTT
TCTTAAATCCGTCTGCCCCCAGCCGCTTTCTCC

2423/2682
FIGURE 2201

MTIISCLATAHQSRETTQVGNPVCASSASGQPLRAPTFSHAILPLRNAPPPFSLIPFLFNSVFFLWDAFARTHAR
AXTHNICLAVDTGGNVIF

2424/2682
FIGURE 2202

CATCCATCCAAATTTGAAGATCCTATATTAGTTCCTCTTCAAGAATTTGCATGGCATCAATATCTACAGGAGAAA
AAAAGGGAACTCAAAAATGAAACCTGGGAATATTCTTCCTCTGTGATTTCTTTTGTTAATGGTCAGTTTCTGGGT
GATGCATTGGATCTGCAGAAATGGGCCCACGAGGTGTGGGATATAGTTGACATTAAACCCTCTGCACTTTATGAC
GCACTCACTGAGGATTTTTCCGCTAAGTTCTTAAGAGACACCAAGCTATACTGTGATGTGTGTCCCAAAACATGT
AAAAATTTTCAGGTCTTGTGCACAGGAAAAGCAGGGTTTTCTCAACGTGGCATAAGACTACATTACAAAATTCC
ATTTTTTCATCGAATAGTACAGAATGGCTGGATACAAGGAGGGGATATAGTGTATGGAAGGAGATAATGGAGAG
TCGATTTATGGTCCAACATTGAAGATGAAACTTTTCAGTTCCTCATAATAAAGAGGAGTACTTGGAATGGCC
AACAAAGGCCGTCACAGCAACGGGTCACAATTCTATATCACACTGCAAGCAACTCCTTATCTAGATAGAAAATT
GTGGCTTTTGGGCAACTGATTGAAGGAACAGAAGTGCTTAAACAAGTAGAATTAGTTCCAACACAGAATGAAAGA
CCAATACATATGTGTAGAATTACTGACAGTGGAGATCCTTATGCTTGATTTTCATATCAATATTTTCTGTGATAA
TTTATTACTTTGTATCTGATCAGCTGTTTGTGGATTTAATTAAAAAGTACTTGATAAATTGTA AAAA

2425/2682
FIGURE 2203

GCCCACGCGTCCGCCCACGCGTCCGGCCCTGCAGACAAGCGTGCCGTGCGTGCTTGTGGCCAAGGGAAGGAAGAG
CTGGTTGATCCACAGATAGCTCCTTCCTCCCCGCCCCCTTCCTTTTGTGGAGGTCCCAGGATCTGTGTTTACA
GACATCTGGGGGAAGAAAAGGAGCAGGAAACTACCCCGCACAGAGTTAAGCAGGAAACAACAACATCATGCA
AAAACCCTGCAAAGAAAACGAAGGAAAGCCAAAGTGCAGCGTGCCAAAGAGGGAGGAAAAACGCCCGTATGGAGA
ATTGA

2426/2682
FIGURE 2204

AHASAHASGPADKRAVRACGQKEELVDPQIAPSSPPLPFCLEVPGSVFTDIWGKKRSRKLPRTELSRKQQQHHA
KTLQRKRRKAKVQRAKEGGKTPVWRI

2427/2682
FIGURE 2205

ACTTCAGTTGGGCTGAGGCGGAGGAGCCGCCGCTTCTGACCTCGCTCTGGCTCCGGTGCGCGCGGCTGAGCGCGT
GCGAGGCCCCGCGCGTCGGGCAGGGGCGGCGGCGGCCACTGCGCGCCGCCCTGAGGAGCGCCCCAGCGGCGGCGC
GACTGCGGCTGAGGAGAGAGCCGGCTCCGGGCCCTCCGCGTCCTCCTGCTCCCCCGGCCCCCGCCTCCTCGGGGG
GGCGGCGGCGACTACGGACTGGTGACGGCCGGCTGCGGCTTCGGGAAGGACTTCCGTAAGGGCCTCCTCAAGAAG
GGCGCGTGCTACGGGGACGACGCGTGCTTCGTGGCCCGGCACCGTTCCGCGGACGTGCTCGGGGTTGCAGATGGT
GTAGGAGGCTGGAGAGACTATGGAGTTGATCCATCTCAATTCTCAGGGACTTTAATGCGGACGTGTGAACGTTTA
GTAAAAGAAGGACGGTTTCGTACCTAGTAATCCCATTTGGAATTCTCACCACAAGCTACTGTGAGTTGCTGC

2428/2682
FIGURE 2206A

TTAAATAAGTAGGGATTGTTTAAAAAAAAGCTGTAATATGTTATCTGGGGGTGGATCATCTGGTGTTAGTTAA
AGCTCTCAGTGATGTCTGTGCTGGGACTTCCGGGTCTCTGTTGGACTTTTCTCCCAAACCTTCACCAGGAACCTGA
CAATGGCGAAGCCCTTCCCGAATCCATCCCATCAGCTCCTGGGACACTGCCTCATTTCATAGAGGAGCCAGATGA
TGCTTATATTATCAAGAGCAACCCTATTGCACTCAGGTGCAAAGCGAGGCCAGCCATGCAGATATTCTTCAAATG
CAACGGCGAGTGGGTCCATCAGAACGAGCACGTCTCTGAAGAGACTCTGGACGAGAGCTCAGGTTTGAAGGTCCG
CGAAGTGTTTCATCAATGTTACTAGGCAACAGGTGGAGGACTTCCATGGGCCCCGAGGACTATTGGTGCCAGTGTGT
GGCGTGGAGCCACCTGGGTACCTCCAAGAGCAGGAAGGCCTCTGTGCGCATAGCCTATTTACGGAAAAAATTGTA
ACAAGACCCACAAGGAAGGGAAGTTCCCATTTGAAGGCATGATTGTACTGCACTGCCGCCACCAGAGGGAGTCCC
TGCTGCCGAGGTGGAATGGCTGAAAAATGAAGAGCCCATTTGACTCTGAACAAGACGAGAACATTGACACCAGGGC
TGACCATAACCTGATCATCAGGCAGGCACGGCTCTCGGACTCAGGAAATTACACCTGCATGGCAGCCAACATCGT
GGCTAAGAGGAGAAGCCTGTGCGCCACTGTTGTGGTCTACGTGAATGGAGGCTGGTCTTCTGGACAGAGTGGTC
AGCCTGCAATGTTGCTGTGGTAGAGGATGGCAGAAACGTTCCCGGACCTGCACCAACCCAGCTCCTCTCAATGG
TGGGGCCTTTTGTGAGGGAATGTCACTGCAGAAATAACCTGCACTTCTCTTTGTCTGTGGATGGGAGCTGGGA
AGTGTGGAGCGAATGGTCCGTCTGCAGTCCAGAGTGTGAACATTTGCGGATCCGGGAGTGCACAGCACCACCCCC
GAGAAATGGGGGCAAATTCTGTGAAGGTCTAAGCCAGGAATCTGAAAACCTGCACAGATGGTCTTTGCATCCTAGA
TAAAAAACCTCTTCATGAAATAAAACCCCAAAGCATTGAGAATGCCAGCGACATTGCTTTGTACTCGGGCTTGGG
TGCTGCCGTCGTGGCCGTTGCACTCCTGGTCACTGGTGTACCCCTTTACAGACGGAGCCAGAGTGACTATGGCGT
GGACGTCACTGACTCTTCTGCATTGACAGGTGGCTTCCAGACCTTCAACTTCAAACAGTCCGTCAAGGTAACCTC
CCTGCTCCTGAATTCTGCCATGCAGCCAGATCTGACAGTGAGCCGGACATACAGCGGACCCATCTGTCTGCAGGA
CCCTCTGGACAAGGAGCTCATGACAGAGTCTCACTCTTTAACCCCTTTGTGCGACATCAAAGTGAAAGTCCAGAG
CTCGTTTCATGGTTTCCCTGGGAGTGTCTGAGAGAGCTGAGTACCACGGCAAGAATCATTCCAGGACTTTTCCCCA
TGGAACAACCCACAGCTTTAGTACAATGCATCCAGAAATAAATGCCCTACATCCAAAATCTGTCATCACTCCC
CACAAGGACAGAACTGAGGACAACCTGGTGTCTTTGGCCATTTAGGGGGGGCGCTTAGTAATGCCAAATACAGGGGT
GAGCTTACTCATAACACACGGTGCCATCCAGAGGAGAATTCTTGGGAGATTATATGTCCATCAACCAAGGTGA
ACCCAGCCTCCAGTCAGATGGCTCTGAGGTGCTCCTGAGTCTGAAGTCACCTGTGGTCTCCAGACATGATCGT
CACCCTCCCTTTGCATTGACCATCCCGCACTGTGCAGATGTCAGTTCCTGAGCATTGGAATATCCATTTAAAGAA
GAGGACACAGCAGGGCAAATGGGAGGAAGTGATGTCACTGGAAGATGAATCTACATCCTGTTACTGCCTTTTGGGA
CCCCTTTGCGTGTGATGTGCTCCTGGACAGCTTTGGGACCTATGCGCTCACTGGAGAGCCAATCAGAGCTGTGC
CGTGAAGCAACTGAAGGTGGCGGTTTTTGGCTGCATGTCTGTAACTCCCTGGATTACAACCTTGAGAGTTTACTG
TGTGGACAATAACCCCTTGTGCATTTCAAGGAAGTGGTTTCAGATGAAAGGCATCAAGGTGGACAGCTCCTGGAAGA
ACCAAAATTGCTGCATTTCAAAGGGAATACCTTTAGTCTTCAGATTTCTGTCTTGATATTTCCCCATTCTCTG
GAGAATTAACCATTTCACTGCCTGCCAGGAAGTCCCGTTCTCCCGCGTGTGGTGCAGTAACCGGCAGCCCCGTGCA
CTGTGCCTTCTCCCTGGAGCGTTATACGCCCACTACCACCCAGCTGTCTGCAAAATCTGCATTGGCAGCTCAA
AGGCCATGAACAGATCCTCCAAGTGACAGATCAATCCTAGAGAGTGAACGAGAAACATCACTTTCTTCGCACA
AGAGGACAGCACTTTCCCTGCACAGACTGGCCCCAAAGCCTTCAAATTTCCCTACTCCATCAGACAGCGGATTTG
TGCTACATTTGATACCCCCAATGCCAAAGGCAAGGACTGGCAGATGTTAGCACAGAAAAACAGCATCAACAGGAA
TTTATCTTATTTGCTACACAAAGTAGCCCATCTGCTGTCAATTTGAACCTGTGGGAAGCTCGTCATCAGCATGA
TGGTGATCTTGACTCCCTGGCCTGTGCCCTTGAAGAGATTGGGAGGACACACAGAACTCTCAAACATTTTCA
ATCCCAGCTTGATGAAGCCGACTTCAACTACAGCAGGCAAAATGGACTCTAGTCCACTTCTCTCCATGAGACAGA
GTGATGGCCAGCTTGGGGACATTTGCTTTAAATGGGAAAGAGGCCGCTTTCTGCCAGTGGCGTTGGGGGAATTC
AGCCTTCATTTATAATCAGTGAGATTCCCTGTTGAAGAACTAAATTTTATATAGGTAAAACATGTTAATAGGG
AAGAGTACAAGCTCTCTTACATATAAGAGGGCTCTACTATCTCCTTGGAAATCCACATTTGGGTTAACTCCTCAGA
TTTGGAGTGGCAAGGATAAAAGTGAGGGCAGAAGTAGCTGTGGGAAAAGATGAGCTATGATAATGCTGGGAAGGC
AGAGATTGATTAAAGTGCATGCTTTGAAATAGGTTTTTAATGATGTGCCCAAAGGGCCAGCTGATTCTGGTACTA
GATTGTGACAGATTTTCTACCAACTGGCATCTGTGATGTGACAGATCATTGTAAAAATGGCTTTTAGACGTGAAAC
AGGGTTGCCAACCCATTTGTATGACTTCAACAACGTCAAGGAGGGCATTAGAAATTTAGAACTGTGACACATCAC
ACCAGCACAGCTCCCTGTCTCTTAGCCACTTAATGGAGACACAATGGAGAGGTAAGACAGACCACAACTAG
TTCTTATAGTGTACTCCACCTTTTACTTTTTCTGAGACAAATCTACCCTTATTCTTTCTCTCTCTCTTACC

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FIGURE 2206B

CCTTGCAGTAGGGAGGTATCAAGGAGCATAATTAACTTGTCAATACGGAAAGTTGTTTTTCTAACACAACAAA
GTGGGACCATCTCTATTCCCATCTAAGCCACTCAAATTGCTGAGTGCTATTAGAACACAGCTTATTACATGGATA
TGGGGACAGGAGAGATTAAAGCAGGTTCAAAAACACATGAACTGCAGATGCCATAGGCCTCAAATCAGCTGTAAT
TCTAGGAGACACGTGTTGATCTAGTTATCTAACATTGTTGTTATAAGAAAATGAGTTTACTGCATTTTTCAATCC
AGATTCTTGAAATTGTCTAACATGTGGGTACTGTGTCATCACAAAATCTCTCAGTAAGGCTATATGTGATCCTCA
TTTTGCCCTCTTGGGAAATTAGCAGATAGTCTTTGCTCTAAATGATATCTGAGTAAATAGACTTGAGGAATCCTCT
ACCACAGTGTCCCTGAAACCACATGCATCATTAGGAAGCCTTCACCTGTGACTATTACAGCCTCCCTGAATATG
CTTTCTCTATAGAACCCTAACATATGGCTATTGCTCTATGATTTTTTTTTTTTACATTAGGAGGCAGTGATATT
GTGGAAGATTGAAATCCACAGATAATTATGACCCCTCATCTTATCACTTTACTCCATCTTTTTATCCTATTAAAT
TATTTTTGACAAGATGCTCTGGTAGACTAAAGGTGAACAGATTTGCTCTTGCTCATCTTCTGGTGGATATTTAA
CTTGCTATTACAAATCAGGACAACCAAGTCAAGGACCCAGATGAACCACAAGGCAGCTAGTCAGCTACTTAGAG
GTTGGTTACATTGCAATAAAAAAGTAGTCAGGGAATGGGGAGGTGGGGAGTTGGGGAGTACTTGGCAGTTGGGAT
ATGATCCATTTTTTTAAACAAGTTTTTTGTAGATCCCTTGTAATAATAATAATAATGTTGTGAATCTCCATGC
CAAGTGAAAAAGGCCTAAAGATGAGTTGAATTTGTGATACCATGGGTAAGGCATGGAAGAACTCTGAATGTGTT
GGCCATTTTCTCTAACTAACATGTGGTATGTATGGTCCCTATATTAGATAGAAGTCTTTGCTACATGTAATCA
AAAGCATCTCGCTTTTCTCAGGAACCAAGGCTTATGATGTAGGACAAAGAAATCATCTTAGAACTGTCAAGCAT
ATTTTCACAATACCATGTCAAGATCAGGAAAACACCCTTTTGCTAGTGTGCTTAACTTATTTCTTCTAGGA
AACATAGATAAACAGCATGAAAATGTAAATCATCTGGCATCACTGATAGAATTTCTGAAAGAGAAAGAGAAGTA
GATGGTCAACCAGTCACTAGTTGGTTGGCATGAGGTGGTGTGCAGAGGAAAGCTGCATTCACTATTGAGTAAAA
CTTGTAGAAAGCACATTATAGAGCTTATGTTGGAATCCATCTTGAGGATTTTGTGTTTAACTGTCTTTAGCAT
TTTCCCTCTTCCCTTCTAATGGGCATTATAATTGTTTCACTACTCTGTGAATCTACATAGGTCTTTTTTTTTAG
ATGTTTGATACATTTTAAAGTATTTTAAATAGATGAAAATCTAAATGATTTCCCTCAAATCTATCTAGATTAT
TTTAAGATGAGACAAGATTATGTCAATCCCTGAATGTCTGGAGTTACCTCCCATGGATTTTTTTTTCTTTGGC
CTGGGTTTTATAACAACCTGAACATCATATCATATAGGATAACAAAGGAGGAAGTTAACTTAATTCACCTCAGA
CTTCAGCCTAAGATTCAATCAAATTCATCCTTCAGCCTGTCTGTTTCTTCTTTATGTTTCTTTTACTTATTGCT
GCTAGGATCTACATAGGATTCTATAGAAATGTATGAAATCTGTGGTCACTGCATGTCAGGATTGCACAGTAT
GTTACAATACAATTTCAAAGAGAACCCACATTTGTGAGATTACAGACCAAGGTGTGGTGGAGGAGGTAGAAATG
CAGATCAGATAAAAAGTGAGCTTACACTTGAAGTTAGTTATCACTGTGACCTAAATTTAGTCCATTGTAATAT
GTGCTGTCAACAACACAAATACCCCTCTTGAAAGAGATTTACTCATCTATCCAAGCACTTAATTTGGAATTTTA
TTGTCTATTGCAAAATGAAACAAAATTAAGTGGCCTCGAGTACTTGGTAAGTTACTTAAAATTTTTACAAAA
ATATCCCACTCAATGCCAAATCTTTCAGTCTCAAAGGCATTAAAGTCCAATAGTCATGCTTAAATATGGCTTT
AAATTATGCCACCAAAATGGTGCACCTTCACAGATTACACAGACTGTAGCATCATAAAGTTAATTTACAGTTTTTA
CAACATTGCTTCTACATTCTTACTGGTTTACATTAAATCCTTTAAGCCAAAAGGAAGCTTGCTCTATGGATTTA
AATGCAAACCTCAATTTACCAGTGCAGGAAGTCTCATAAACTCAGATGTACTCCACAAAATTTTATTGGCCTT
TTTGTAAGAGATGAAAAAGAAATTGACACAGTTCTCTTTAAAGAGAAGAACTTTTTATTATTATTTTTATCTCCA
ACTGCAGGTGGTGTCTTTTGGCAAGGTCTCTGTATTTTTCTTTAGTTGCTTTGGGAGGGGATGTTAAGTCAAA
TCACTAAACAGGGTTCTCTTTGGATTAAAGTTCTGGATTATTGCAACTATTTTCTTGAGAAACATTCTCAG
CATCAGGATTGATAAACAAATGTAGATGATTAATAAGGATAAATGGTTTTAGATAATATCTTCTACTGCCAAAC
TTCTGGCAAATTTACCTGTGAATTTCAAAATGTTATAAAATCTCTTGATATGCTTTTGTGTTTCTTTTAGCCAT
TTTCTCTTCAATTTCTTAGTCCCTCTGCCCTCTGTAAATGTGTTGAGTGATATAGCTATCAGATGTATTGAAGGC
AAAGTTCTCGCAGAGGTCTCTGTTCCAGCTCTGTAAAGGTACAGGAATCGTGAAGGAGCTGAGAAATCTTCTC
TCCGGCCCACTGTCTGTGGCCCATTTGTCATTGTTTCTCATGAAACATTGCAGAGTTTGAATCCTCAGTAACCT
CATTGACTGGATTAGAGGTGATGGCCACAGCAATGGGAGAGCAAAATGTTGGCCTACAGAGAATGACACAATTT
TATTGCTTTTGGTGTAGTTGCCATAGTGCTGTATTTGAAATCGATGCTTTAGCCAAAAGCTGAATGACCACC
GTTTCCGTAGTTTCCACTGTTTTGTCTGCATAGAATTTCTCGAACTACAAGCAAAAATGTATTTGTCCAATGT
CACAAAAGTGAAAAATGTTACTAATCTT

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FIGURE 2207

MILVLVKALSDVCAGTSGFLLDFSSQTSPTDNGEALPESIPSAPGTLPHFIEEPDDAYIIKSNPIALRCKARPA
MQIFFKCNGEVWHQNEHVSEETLDESSGLKVREVFINVTRQQVEDFHGPEDYWCQCVAWSHLGTSKSRKASVRIA
YLRKNFEQDPQGREVPIEGMIVLHCRPPEGVPAAEVEWLKNEEPIDSEQDENIDTRADHNLIIRQARLSDSGNYT
CMAANIVAKRRSLSATVVVYVNGGWSSWTEWSACNVRCGRGWQKRSRTCTNPAPLNGGAFCEGMSVQKITCTSLC
PVDGSWEVWSEWSVCSPECEHLRIRECTAPPPRNGGKFCEGLSQESENCTDGLCILDKKPLHEIKPQSIENASDI
ALYSGLGAAVVAVAVLVIGVTLYRRSQSDYGVDVIDSSALTGGFQTFNFKTVRQGNSLLLNSAMQPDLTVSRTYS
GPICLQDPLDKELMTESSLFNPLSDIKVKVQSSFMVSLGVSEAEYHGKNHSRTFPHGNNHSFSTMHPRNKMPYI
QNLSSLPTRTELRTTGFGHLGGRLVMPNTGVSLIPHGAIPENSWEIYMSINQGEPSLQSDGSEVLLSPEVTC
GPPDMIVTTPFALTIPHCADVSEHWNHLKKRTQQGWEEVMSVEDESTSCYCLDPPFACHVLLDSFGTYALTG
EPITDCAVKQLKVAVFGCMSCNSLDYNLRVYCVDNTPCAFQEVVSDERHQGGQLLEEKLLHFKGNTFSLQISVL
DIPFLWRIKPFTACQEVFSSRVWCSNRQPLHCAFSLERYTPTTQLSCKICIRQLKGHEQILQVQTSILESERE
TITFFAQEDSTFPAQTGPKAFKIPYSIRQRICATFDTPNAKGKDQMLAQKNSINRNLSYFATQSSPSAVILNLW
EARHQHDGDLDSLACALEEIGRTHTKLSNISESQLDEADFNYSRQNGL

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FIGURE 2208

GAAACAATGATTGCCAGGAAGGTCACCTTTTCAGCACCCACAGCCTCGGCAACCAGCACATATACCAGCGAAGCTCC
TCCATGTTGTCCTTCAGCAACACTGACAAGAAGGCCAAGGTGGGTCTGGAGGCCTGTGGGAGAGCCCAGTCAGCC
ACCCCGCCAAACCCACAGACGGCCTCTACACCTACTGGAGTGCTGGAGAAGACAGCCAGTCTGTACAGAACAGC
AGCAGCTTCCACAACCTGGTACTCATTCAACGATGGCTCTGTGAAGACCCAGGCCCAATTGTTATCTACCAGACT
CTGGTGTACCCAAGAGCTGCCAAGGTTTACTGGACATGTCCAGCAGAAGACGTGGACTCTTTTGAGATGGAATTC
TATGAAGTCATTACTTCTCCTCCTAACAACGTACAAATGGAGCTCTGTGGACAAATTCGGGACATAATGCAGCAA
AATCTGGAGCTGCACAACCTGACCCCAACACAGAATACGTGTTTAAAGTTAGAGCCATCAATGATAATGGTCCT
GGGCAATGGAGTGATATCTGCAAGGTGGTAACACCAGATGGACATGGGAAGAACCGAGCTAAGTGGGGCCTGCTG
AAGAATATCCAGTCTGCCCTCCAGAAGCACTTCTGAGCCCCCTTCAGAGCAGGAAACAACCTCAGACTCATCACAA
AGTAGACATATACACACACATATATGTATGTATATTTTTCTCACCACATTCTTCAAGGAGGTTGTAGACAAATGT
TTCCATGACCTCTCAGCTTTCCAACAGGAATCTTGTAAGAGCTAATAAAAGGAAATACCTGAAAAAAAAAAAAA
AAAAAA

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FIGURE 2209

ETMIARKVTFSTHSLGNQHIYQRSSSMLSFSNTDKKAKVGLEACGRAQSATPAKPTDGLYTYWSAGEDSQSVQNS
SSFHNWYSFNDGSVKTPGPPIVIYQTLVYPRAAKVYWTCPAEDVDSFEMEFYEVITSPPNNVQMELCGQIRDIMQQ
NLELHNLTPNTEYVFKVRAINDNPGQWSDICKVVTPDGHGKNRAKWGLLKNIQSALQKHF

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FIGURE 2210

ATGGACGTCAGGCTCATCTGCACCACCGTACCCAAGATGGCCTTCAACTACTTGTCTGGCAGCAAGTCCATTCT
ATGGCTGGCTGTGCCACACAAATTTTCTTCTGTGTATCACTGCTTGGCTCTGAATGCTTTCTGTTGGCTGTTATG
TCTTATGACTGCTACATTGCCATTTGCCACCCTCTAAGATACACCAATCTCATGAGACCCAAAATTTGTAGACTT
ATGACTGCCTTCTCCTGGATCCTGGGCTCTACAGATGGAATCATTTATGCTGTAGCCACATTTTCTTCTCCTAC
TGTTGGGTCTCGGGAAATAGCCCACTTCTTCTGTGAGTTACCTTCCCTACTAATCCTCTCATGCAATGACACGTCA
ATATTTGAAAAGGTTATTTTCATTTGCTCTATAGTAATGCTTGTTTTCCCTGTTGCAATCATCATTGCTTCCTAT
GCTGGAGTTATTCTGGCTGTCATTACATGGGATCTGGAGAGGGTCGTCGCAAAGCTTTCACGACCTGTTCTCT
CACCTCATGGTGGTGGGAATGTTCTATGGAGCAGGTTTGTTCATGTACATACAGCCACATCTGATCGCTCCCCA
ACGCAGGACAAGCTGGTGTCTGTATTCTACACCATCCTCACTCCC

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FIGURE 2211

TGCTGCACAGACAGCACCATGTCGCTCATGGTCGTCAGCATGGCGTGTGTTGGGTTCTTCTTGCTGCAGGGGGC
CTGGCCACATGAGGGAGTCCACAGAAAACCTTCCCTCCTGGCCACCCAGGTCCCCTGGTGAAATCAGAAGAGAC
AGTCATCCTGCAATGTTGGTCAGATGTCAGGTTTGAGCACTTCCTTCTGCACAGAGAGGGGAAGTATAAGGACAC
TTTGACCTCATTGGAGAGCACCATGATGGGGTCTCCAAGGCCAACTTCTCCATCGGTCCCATGATGCAAGACCT
TGCAGGGACCTACAGATGCTACGGTTCTGTTACTCACTCCCCCTATCAGTTGTCAGCTCCCAGTGACCCTCTGGA
CATCGTCATCACAGGTCTATATGAGAAAACCTTCTCTCTCAGCCCAGCCGGGCCCCACGGTTTTGGCAGGAGAGAG
CGTGACCTTGTCTGTCAGCTCCCGGAGCTCCTATGACATGTACCATCTATCCAGGGAGGGGGAGGCCCATGAACG
TAGGTTCTCTGCAGGGCCCAAGGTCAACGGAACATTCCAGGCCGACTTTCCTCTGGGCCCTGCCACCCACGGAGG
AACCTACAGATGCTTCGGCTCTTTCCGTGACTCTCCCTATGAGTGGTCAAACCTCGAGTGACCCACTGCTTGTTTC
TGTCACAGGAAACCCCTTCAAATAGTTGGCCTTCACCCACTGAACCAAGCTCCAAAACCGGTAACCCAGACACCT
GCATGTTCTGATTGGGACCTCAGTGGTCAAAATCCCTTTCACCATCCTCCTCTTCTTCTCCTTCATCGCTGGTG
CTCCAACAAAAAATGCTGCTGTAATGGACCAAGAGCCTGCAGGGAACAGAACAGTGAACAGCGAGGATTCTGA
TGAACAAGACCATCAGGAGGTGTACATACGCATTAATTGGATCACTGTGTTTTACACAGAGAGAAATCACTCGCCC
TTCTGAGAGGCCCCAAGACACCCCCAACAGATACCAGCATGTACATAGAACTTCCAAATGCTGAGCCCAGATCCAA
AGTTGTCTTCTGTCCACGAGCACCACAGTCAGGCCTTGAGGGGATCTTCTAGGGAGACAACAGCCCTGTCTCAA
ACCGGGTTGCCAGCTCCCATGTACCAGCAGCTGGAATCTGAAGGCATCAGTCTTCATCTTAGGGCATCGCTCTTC
CTCACACCACGAATCTGAACATGCCTCTCTCTTGCTTACAAATGTCTAAGGTCCCCACTGCCTGCTGGAGAGAAA
ACACACTCCTTTGCTTAGCCACAAATTCTCCATTTCACTTGACCCCTGCCACCTCTCCAACCTAACTAGCTTAC
TTCTAGTCTACCTGAGGCTGCAATCACACTGAGGAATCACAATTCCAAACATACAAGAGGCTCCCTCTTAACA
CAGCACTTAGACACGTGCTGTTCCACCTCCCTTCAGACTATCTTTAGCCTTCTGCCAGCAGTAAACTTATAAA
TTTTTTAAATAATTTCAATGTAGTTTTCCCGCCTTCAAATAAACATGTCTGCCCTCA

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FIGURE 2212

MSLMVVSMACVGFFLLQGAWPHEGVHRKPSLLAHPGPLVKSEETVILQCWSDVRFEHFLHREGKYKDTLHLIGE
HHDGVSKANFSIGPMMQDLAGTYRCYGSVTHSPYQLSAPSDPLDIVITGLYEKPSLSAQPGPTVLAGESVTLSCS
SRSSYDMYHLSREGEAHERRF SAGPKVNGTFQADFPLGPATHGGTYRCFGSFRDSPYEWSNSSDPLLVSVTGNPS
NSWPSPTESPSSKTGNPRHLHVLIGTSVVKIPFTILLFLLHRWCSNKKNAAVMDQEPAGNRTVNSEDSDEQDHQE
VSYA

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FIGURE 2213A

CCGGCTTTTTCGCTGGGAGCCCAGAGCAGGAGGCAGAGCCCGCGGGAAGCTCGGAGCACTCAGGACGCCGCGCGC
CCTTCCCCGCCCTCCCTGACCAGGGAGCAGCTCGCTCCAGGCGCCAGCCGAGGCCCCAGCCAGTGGGAGCAA
GTCATAGAGAACAATTTCGAGAGACAGAGAGACGGAGCGCGCTTCTGCTCAGTCCTGAAAAGTGAGCCGCTCCC
GGGTTTGCAACCTCAAGCTTCGCAGCAGCGGCGCGCGGCTGCCGGAAGGAGGCAGGTGCAGGTGCAGGAGGG
AGGCGGCTCTGGGCTCCGCGCCTGGGTCTTGGCCATGGCCTCGGTCTGGGGAGCGGCAGAGGGTCTGGAGGGCT
GAGCAGTCAACTCAAATGCAAGTCCAAGAGGAGGAGGAGCGGAGGTCCAAGCGGAAAGATAAAGTAAGCATATT
GTCAACCTTCTCGCTCCTTTCAAGCACCTGAGTCTGGCATCACAAACACGGAGGATGACGACACCCCTCAGTAC
CAGCAGCGCGGAGGTGAAGGAGAACCACAACGTGGGCAACCTGGCCGCGCGGCCACCGCCCTCCGGGGACCGGGC
CCGGGGCGGCGCGCCCGGCGCGAAGAGGAAGCGGCCGCTGGAGGAGGGGAATGGGGGCCACTTGTGCAAACTGCA
GCTGCTCTGGAAGAAGCTGTCTGTGGTGGTGGCGCCCAAGAACGCGCTGGTGCAGTGCACGAGCTGAGGCCGGG
CCTGCAGTACCGGACAGTGTCTGCAGACGGGCCCCGGTGCATGCCCGGTCTTCGCGGTAGCGGTGGAGGTGAACGG
GCTCACGTTTCGAGGGCACAGGCCCCACCAAGAAGAAGGCCAAGATGCGCGCGGCGGAGCTGGCACTCAGGTCTTT
CGTGCAGTTCCCCAACGCTGCCAGGCGCACCTGGCCATGGGCGGGGGCCCCGGGCCCCGGCACGGACTTACCTC
CGACCAGGCCGATTTCCCCGACACGCTCTTCCAGGAGTTCGAGCCCCCGGCGCGCGCCCCGGACTCGCGGGAGG
CCGCCCCGGGGACGCGCGCTTCTGTCCGCGGCTACGGGCGACGGCGGCTGCTGTGCCGCGCGTGGACCTGGT
GGGCCCCGACCCCCGCCACCCCCGCGGCCCGGGCGAGCGCAACCCCGTGGTGTCTGTAACCGCTGCGCGCCGG
GCTGCGCTACGTGTGTCTGGCAGAACCGGCCGAGCGGCGCGCGGAGCTTCGTGATGGCCGTGAGCGTGGACGG
CAGGACGTTTCGAGGGCTCGGGGCGCAGCAAGAAGTGGCCCCGGGTGAGGCCGCGCAGGCCGCACTGCAGGAGCT
GTTTCGACATCCAGATGCCCGGCCACGCGCCCGGCGAGGCCAGGAGGACGCCAATGCCGAGGAATTCGAGACTC
CATATCCCAGCTGGTCACACAGAAGTTCGCGAGGTGACGACGGACCTCACGCCATGCAGCCCCGCATAAAGC
GCTGGCAGGAATCGTCATGACCAAGGCCTGGATGCTCGGCAGGCGCAGGTCTGTGGCCCTGTCTCGGGACCAA
GTGCATCAGCGCGAGCACCTCAGTGACAGGGGCTGGTGGTGAATGACTGCCACGCGAGGTCTGTGGCCCGGCG
GGCGTTCTCTGCACTTCTCTACACGAGCTGGAGCTGCACTGAGCAAGCGGCGGAGGACTCAGAGCGATCGAT
ATTCTGTGGTTAAAGAAGGTGGCTACCGGCTGCGAGAGAATCCTCTTCCATCTCTACGTGAGCACCTCCCC
CTGTGGAGACGCAAGACTCCACTCTCCCTACGAGATCACCACAGACCTGCACAGCAGCAACACCTCGTCAGGAA
GTTCCGCGGGCACCTGCGCACCAAGATCGAGTCCGGGAAGGGACGGTCCCCGTGCGTGGCCCCAGCGCAGTGCA
GACCTGGGACGGCGTCTGTCTGGGGGAGCAGCTGATCACCATGTCTGCACGGACAAGATCGCCAGGTGGAACGT
CCTGGGGTGCAGGGGCGCTCTCTGTCCACTTCTGTGGAGCCCCGTGTACCTGCAGAGCATCGTGGTGGGACGCT
GCACCACAGGGCCACCTCGCACGCGTATGAGCCACCGCATGGAGGGTGTGGGCCAGCTGCCCGCCTCTACCG
GCACAACCGCCTCTCTCAGCGGCGTGTGTGACGCCGAGCGCGCCAGCCGGGGGAAGTCGCCCCCTTACGAT
GAAGTGGGTCTGTGGGACGCGGACCTGGAGATTATCAACGCCACCACTGGGCGGAGGAGCTGTGGGGGGCCATC
CCGGCTCTGCAAGCACGTGTCTGTGACGGTGGGCGCGGCTGTATGGCAGGCTGAGCACACGGACACCCAGCCC
TGGAGACACGCCCTCCATGTACTGTGAGGCCAAGCTGGGGGCGCACACCTACCACTGTGAAACAGCAGCTGTT
CAAGGCCCTTTCAGAAGGCTGGCCTGGGCACCTGGGTGAGGAAACCACCGAGCAGCAGTCTTACTGACTCT
CTAGGCTGCGGGCTCCTGGCTGTCTGGAGCTGAGCGGGACGCTGGAGGGATGGGACCGTGTCTGGGGGGCGACGTG
GCGGGTGGCCGGTTCCCTGCATTCTTTTACTTTGGTGTCCCAGAAACACGCGAGTGTGCAATGTTTGGACGAG
CAACAACACAAATTCAGAACGTGCCTCTTTCCAGATCGCTGGCCCCAGAACCTGTCCCCACACCCAGGGGCAC
ACGCACCGTTGAGTTAGCGCCGACTCTTCTGTGGAGTCTGAGGGAGGGGCTCCATTACGGCAAAGGGGTTTTAG
CTGCAGCCTTGAAGGAGGCACCGACACGACACAGGCAGGAGTGAGCCTCAGGCCCGCTCCCTGCACCCACCC
CTGCGTGGCCTCTTGGTGTGTCTGGGTCTCACTAGCTTGGGGGCGACATGAAGATAAGCCACAAATGAAGAG
AAAAGCCATGCCACCCAGCCCCAGAGAAACCAATAAGAATCCTCTATTATTTTACTATTCTGTTTAGGTTTTT
ATACTCCACCTCCTTTCAAAAAAGATTTAAGATGTACGACATTACCGAACACCTAAATAGAACAGAGAAACGA
AAGCCATTCCCAAAAGTGAAGGAACAGTTTCAAAACCCCTGCGAGGCAGAGTTAAGACCTGTGACGTGGGGAG
CCTGGAAACACCTGGCCCACGCGTGTGCAGATGTGGGGAGCCTGGAAACACCCGGCCACGCGTGTGCAGATG
TGGGGAGCCTGGAAACACCCGGCCACGCGTGTGCAGATGTGGGGAGCCTGGAAACACCCGGCCACGCGTGTCT
GTAGATGTGGGGAGCCTGGAAACCTGGCCCACGCGTGTGCAGATGTGGGGAGCCCGGAAACACCTGGCCCAT
GCCTGTTAGTCCGTATGGCGTTTGGTTTATGGTGGCCGATACTAAGAGCCACTGAGGTCTGGGTGTGTGAGG
GTTAGCTACCACCTATAACCTCCCTACCAGTAATAAGGAGACCAAGTCTTTGATCAAATTCGATTTTTTAAC

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FIGURE 2213B

TAAATTTTCATTAGAAAGCAAGCACAAAATAAAATCAAACAACCTTTACCTTCA

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FIGURE 2214

MASVLGSGRGSGGLSSQLKCKSKRRRRRRSKRKDKVSILSTFLAPFKHLSPGITNTEDDDTLSTSSAEVKENRNV
GNLAARPPPSGDRARGGAPGAKRKRPLEEGNGGHLCKLQLVWKKLSWSVAPKNALVQLHELRLPGLQYRTVSQTGP
VHAPVF AVAVEVNGLTFEGTGPTKKKAKMRAAELALRSFVQFPNACQAHLAMGGGGPGPGTDFTSDQADFPDTLFQ
EFEPPAPRPGLAGGRPDAALLSAYGRRRLLCRALDLVGPTPATPAAPGERNPVLLNRLRAGLRYVCLAEPAE
RRARSFVMAVSVDGRTFEGSGRSKKLARGQAAQALQELFDIQMPGHAPGRARRTPMPQEFADSIQVLTQKFRE
VTTDLTPMHARHKALAGIVMTKGLDARQAQVVALSSGTCISGEHLSQGLVVNDCHAEVVARRAFLHFLYTQLE
LHLSKRREDSERSIFVRLKEGGYRLRENILFHLYVSTSPCGDARLHSPYEITTDLHSSKHLVRKFRGHLRTKIES
GEGTVPVRGPSAVQTDGVLLGEQLITMSCTDKIARWNVLGQALLSHFVEPVYLSIVVGSLLHHTGHLARVMS
HRMEGVGQLPASRYRHNRPLLSGVSDAEARQPGKSPFMSMNWVGSADEIINATTGRRSCGGPSRLCKHVLSARW
ARLYGRLSTRTPSPGDTPSMYCEAKLGAHTYQSVKQQLFKAFQKAGLGTWVRKPPEQQQFLTL

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FIGURE 2215

ATTTCATGTTATACTTAATAAAACAAAACATACCTGTATACACACACATTCACTCACATTGAAGATGCAAGATGA
AGAAAGATACATGACATTGAATGTACAGTCAAAGAAAAGGAGTTCTGCCCAAACATCTCAACTTACATTAAAGA
TTATTTCAGTGACGTTGCACTGGTATAAAATCTTACTGGGAATATCTGGAACCGTGAATGGTATTCTCACTTTGAC
TTTGATCTCCTTGATCCTGTTGGTTTCTCAGGGAGTATTGCTAAAATGCCAAAAGGAAGTTGTTCAAATGCCAC
TCAGTATGAGGACACTGGAGATCTAAAAGTGAATAATGGCACAAGAAGAAATATAAGTAATAAGGACCTTTGTGC
TTCGAGATCTGCAGACCAGACAGTACTATGCCAATCAGAATGGCTCAAATACCAAGGGAAGTGTATTGGTTCTC
TAATGAGATGAAAAGCTGGAGTGACAGTTATGTGTATTGTTGGAAAGAAAATCTCATCTACTAATCATACATGA
CCAACCTTGAAATGGCTTTTATACAGAAAAACCTAAGACAATTAACCTACGTATGGATTGGGCTTAACCTTACCTC
CTTGAAAATGACATGGACTTGGGTGGATGGTTCTCCAATAGATTCAAAGATATTCTTCATAAAGGGACCAGCTAA
AGAAAACAGCTGTGCTGCCATTAAGGAAAGCAAAATTTCTCTGAAACCTGCAGCAGTGTTCCTCAATGGATTG
TCAGTATTAGAGTTTGACAAAATTCACAGTGAAATAATCAATGATCACTATTTTGGCCTATTAGTTTCTAATAT
TAATCTCCAGGTGTAAGATTTTAAAGTGCAATTAATGCCAAAATCTCTCTCCCTTCTCCCTCCATCATCGACA
CTGGTCTAGCCTCAGAGTAACCCCTGTTAACAACTAAAATGTACACTTCAAATTTTACGTGATAGTATAAAC
CAATGTGACTTCATGTGATCATATCCAGGATTTTATTCGTCGCTTATTTATGCCAAATGTGATCAAATTATGC
CTGTTTTTCTGTATCTTGCCTTTTAAATCTTAATAAGGTCCTAAACAAAATTTCTTATATTTCTAATGGTTGAA
TTATAATGTGGGTTTATACATTTTTTACCCTTTTGTCAAAGAGAATTAACCTTTGTTTCCAGGCTTTTGCTACTCT
TCACTCAGCTACAATAAACATCCTGAATGTTTTCTTAAAAAA

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FIGURE 2216

MQDEERYMTLNVQSKKRSSAQTSQLTFKDYSVTLHWYKILLGISGTVNGILTTLISLILLVSQGVLLKCQKGSC
SNATQYEDTGLKVNNGTRRNISNKDLCASRSADQTVLCQSEWLKYQGKCYWFSNEMKSWSDSYVYCLERKSHLL
IIHDQLEMAFIQKNLRQLNYVWIGLNFTSLKMTWTWVDGSPIDSKIFFIKGPAKENSCAAIKESKIFSETCSSVF
KWICQY

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FIGURE 2217

AGCAGTGGCCCAAAGAGGAGCAGCAGACAAGAGTGCAGTGGTGGCTGCCGCCGCACCAGCCTCAGTGGCAGATGA
CACACCACCCCCGAGCGTCGGAACAAGAGCGGTATCATCAGTGAGCCCCCTCAACAAGAGCCTGCGCCGCTCCCG
CCCGCTCTCCCACTACTCTTCTTTTGGCAGCAGTGGTGGTAGTGGCGGTGGCAGCATGATGGGCGGAGAGTCTGC
TTGACAAGGCCACTGCGGCTGCAGCCTGGCCTTCCCTGTTGGCCAATGGGATGACCTGGCGGGCGGCCATGGCGGT
GGACAAAAGCAACCCTACCTCAAAGCACAAAAGTGGTGTCTGTGGCCAGCCTGCTGAGCAAGGCAGAGCGGGCCAC
GGAGCTGGCAGCCGAGGGACAGCTGACGCTGCAGCAGTTTGCGCAGTCCACAGAGATGCTGAAGCGCGTGGTGCA
GGAGCATCTCCCGCTGATGAGCGAGGCGGGTGTGGCCTGCCTGACATGGAGGCTGTGGCAGGTGCCGAAGCCCT
CAATGGCCAGTCCGACTTCCCCTACCTGGGCGCTTTCCCCATCAACCCAGGCCTCTTCATTATGACCCCGGCAGG
TGTGTTCTGGCCGAGAGCGCGCTGCACATGGCGGGCCTGGCTGAGTACCCCATGCAGGGAGAGCTGCCTCTGCC
ATCAGCTCCGGCAAGAAGAAGCGGAAACGCTGCGGCATTGTGCGCGCCCTGCCGGCGGCGCATCAACTGCGAGCA
GTGCAGCAGTTGTAGGAATCGAAAGACTGGCCATCAGATTTGCAAATTCAGAAAATGTGAGGAACTCAAAAAGAA
GCCTTCCGCTGCTCTGGAGAAGGTGATGCTTCCGACGGGAGCCGCCTTCCGGTGGTTTCAGTGACGGCGGCGGAA
CCCAAAGCTGCCCTCTCCGTGCAATGTCACTGCTCGTGTGGTCTCCAGCAAGGGATTGGGGCGAAGACAAACGGA
TGCACCCGCTTTTGAACCAAAAATATTCTCTCACAGATTTTATTCTGTTTTATATATATATTTTTTGTGTGTC
GTTTAAACATCTCCACGTCCCTAGCATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2218

MAVDKSNPTSKHKSGAVASLLSKAERATELA AEGQLTLQQFAQSTEMLKRVVQEHPLMSEAGAGLPDMEAVAGA
EALNGQSDFPYLGAFFINPGLFIMTPAGVFLAESALHMAGLA EYPMQGELPLPSAPARRSGNAAALCAPCRRRIN
CEQCSSCRNRKTGHQICKFRKCEELKKKPSAALEKVMLPTGA AFRWFQ

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FIGURE 2219

CATTTGCTATGAATATTCTCTATAACAAAGCAAGACAAATTTAGCAGCACTTCATTGCATCTGGATGGGGGAGAG
AGCTGGACAATTTCTTGCTAACAAGAGATGGTTAACTGCCCTCACCTCAGCCGTGAATTCTGCACACCTCGCATC
CGGGGCAACACCTGCTTCTGCTGTGACCTCTACAACGTGGCAACCGGTGGAGATCACTGGTGGGTACTACGAA
TACATCGATGTCAGCAGTTGCCAAGATATCATCCACCTCTACCACCTGCTCTGGTCTGCCACCATCCTCAACATT
GTTGGCCTGTTTCTGGGCATCATCACTGCCGTGTCTTGGAGGCTTTAAGGACATGAACCAACTCTCCAGCA
CTGAACGTCTGTTGTTGAAAATACCCATCCAACAGTTTCTTACTATGCTCATCCCCAAGTGGCATCCTACAATACC
TACTACCATAGCCCTCCTCACCTGCCACCATATTCTGCTTATGACTTTCAGCATTCCGGTGTCTTTCCATCCTCC
CCTCCCTCTGGACTTTCTGATGAGCCCCAGTCTGCCTCTCCCTCACCCAGCTACATGTGGTCTCAAGTGCACCG
CCCCGTTACTCTCCACCCTACTATCCACCTTTTGAAGGCCACCACCTTACAGTCCC**TAA**AGAGGAATGCCTGCT
GGCTATTGAGATTATTGTGGCTTTTGTATTCTGCTTCACTGGAAGTGTGTAGGGTACAAAATTTAAAGTGTGAC
TCTTATGCATAAAGTTTACAATGGCCTGCCAGGCTAGGGAAAGATAGGGACGAAGCTTATTCAATTATTAGTGCA
GAGCAGGGGTGGTCAGGCTGAACGCAGCACAGAAGGGCAGCTCACATTCTTAAGCAAGACTGGGGAGCCAGCCC
AGCAAGAAGCTTGTTTGGACTTGCAATTACCCTATGCTCCACCTCTGTATTTCAGCAGAAGTGTGGTTGCCATCTTT
TTCACCTTATGTAAAGGAGTGTGGCCTCGGGCCCTTGGCAGATTGCCACCCAGCACCTAGGTTGAAGCACCTG
GTTTATAGGCCCTATCTTTCCCTACCCCTAAAGTCAGTCCCTAAGGACAATTTCCAGCTGATGGGGCTACACAG
TAGTTCCAATACAGAGAGTTCTGGCTAAGATTTTGTGTGCTGCTGGATGTTGAAAAAGACTGCCCGTATCT
CTTACTCCTTCTCTCTGTGAGTATTGTAAAAATGGCTGTTGTGATCACTCAGCTCAGCTTTTGTATTGGTAC
CTCCTAAAGGGAAAAGTGAATATTCTTGCATCTTCACTAGTGGGGAACAGGATGTATTGTCCGGAAACACTGA
AATACACAGCAACATGTGAGATGTTTTAAGTAGATCACTTAGGAGACAGTGGTCTACTACATGTTGCATTATTA
CAAAATACATTTGCTACAGGAGATATAAATCTTATGGTTGTAATTCAGAGTTAAAAATGTTATAAATTAGGTTT
TTGGGTCTGATATGAATTGTTACTAATCTTGTGACTATTTAATCTTCAAATATTGTGCTTAACCCAGCAATC
CGCACGTATCCTGCACCCACCCAAAAGAGTCATCTGTATTTAATGCCACTGGTCTTATCGGTCTTTTGTCT
GTTGAGACCAGTCATGACAGCATTCAAGATTATGAAAGTGTACAATGCCGCTTCAAGTCTGCAAAACCTCAAAC
GTAGCCAACCTTGACAAATATTTAAGTGTACGGCAGATTTAAATCCATCTGGCACACCGTGGTAGGTATTTGTA
CAGTTCTTTAATTACACATAGCTTTAAACCATCAACCTGATGAGTTTAAAGCTTTTGACCCCATGCCTTCACCT
CAGAATGAACACCTTCATTGTGATCTTATGTTAACCTGAGAATTGATTTAAAGGAAGATTGATAATCCTATACTT
TATAACGTAAAAATACAGGGGTACAGGAGGGTACCTAATTAGACAGTTCTCCAAACACAGAACACACACTGGAA
AATTTTCCGGCCAATTTTGTACCTCCCAACTTGATGGATTAGAGGTAGCGCATATGCTGGTCTCCCATCTACC
TTGTAGACACTTAGCCATCAAGAATCAAGGCACAAGAAGTGCACCTCTCTCATTAAACAGTAAATGTTTGCAAGATA
TTCAGTTTAACTTTCAGCATCATGAATGTTCTTATCCAGATTTTGAATCCGAAAACTATAATCCTTTTATGTTA
TACAAAATTACTATGATTTTTTACAGTTCTGAGCATATTAAAAATTCTACTGGATTTCAAAAAGAGACTAATACCC
AACTGACTAACTAAACAAATATCAACTTGTAATACTCAATGAATTTTTTGGCAATTTACATTTGACCGTTGGCTT
TAGTGAATGTCCATATTTAATTTTTTAAGGCACCATTACACAGTTTATCCTACATTTATCACATTTCTTAAAGTG
TTAAGATTCTATGGCTCATTTCTATGTATTTTCTTACTTTACAAAATAACCTGAAACAGTATAGATTTTGTAAAC
ACTTAATTTGAGCAGCTTTTTTATTACATTGAATTATATAAAGTGCATGTTACCTTAGAAAAATTAGTATTTGCT
GCTTTACTCTTTTGCAAAACATTTGCTGTAATGAATGGATTTGTATTTCCAATATGTATCTTGACTGCATTTTGT
AATATTTACTGCTTTATTCTAATTCTGCTTTAAAGTACTGAACCTGGGCATGAAACATTAAAAATTAATCCAGA
AACTGTATAAACTGGATGTTGCTTAAATCTGTATCACTGCCATGTTGAAAATTCAGACTGCTTTTGTGATGTTT
CAAATGAATAAACTATCCTCCCTCGTT

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FIGURE 2220

MVNCPHLSREFCTPRIRGNTCFCCDLYNCGNRVEITGGYYEYIDVSSCQDIHLYHLLWSATILNIVGLFLGIIT
AAVLGGFKDMNPTLPALNCSVENTHPTVSYAHQVASYNTYYHSPPHLPYSAYDFQHSGVFPSSPPSGLSDEF
QSASPSPSYMWSSSAPPRYSPPYPPFEKPPPYSP

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FIGURE 2221

CCACGCGTCCGGCACCGGCAGCACCATGTTGCTCATGGTCGTCAGCATGGCGTGTGTTGGGTTCTTCTTGGTCCA
GAGGGCCGGTCCACACGTGGGTGGTCAGGACAAGCCCTTCTGTCTGCCTGGCCCAGCGCTGTGGTGCCTCGAGG
AGGACACGTGACTCTTCGGTGTCACTATCGTCATAGGTTAACAATTTTCATGCTATACAAAGAAGACAGAATCCA
CGTTCCCATCTTCCATGGCAGATTATTCCAGGAGAGCTTCAACATGAGCCCTGTGACCACAGCACATGCAGGGAA
CTACACATGTCCGGGTTTACACCCCACTCCCCACTGGGTGGTCGGCACCCAGCAACCCCGTGGTGATCATGGT
CACAGGAAACCACAGAAAACCTTCCCTCCTGGCCCAACCAGGTCCCCTGGTGAAATCAGGAGAGAGAGTCATCCT
GCAATGTTGGTCAGATATCATGTTTGAGCACTTCTTTCTGCACAAAGAGGGGATCTCTAAGGACCCCTCAGGCCT
CGTTGGACAGATCCATGATGGGGTCTCCAAGGCCAATTTCTCCATCGTCCCATGATGCTTGCCCTTGACAGGGAC
CTACAGATGCTACGGTTCTGTACTCACACCCCTATCAGTTGTCAGCTCCCAGTGATCCCCTGGACATCGTGGT
CACAGGTCATATGAGAAACCTTCTCTCTCAGCCAGCCGGGCCCCAAGGTTTCAGGCAGGAGAGAGCGTGACCTT
GTCCTGCAGCTCCCGGAGCTCCTATGACATGTACCATCTATCCAGGGAGCGGGGAGCCCATGAACGTAGGCTCCC
TGCAGTGCGAAGGTCAACAGAACATTCCAGGCAGATTTCCCTCTGGGCCCTGCCACCCACGAGGGACCTACAG
ATGCTTCGGCTCTTTCCGTCACTCTCCCTACGAGTGGTCAGACCCGAGTGACCCACTGCTTGTTTCTGTACAGG
AAACCCCTTCAAGTAGTTGGCCTTCACCCACAGAACCAAGCTCCAAATCTGGTAACCCACAGACACCTGCACATTCT
GATTGGGACCTCAGTGGTCATCATCCTCTTCATCCTCCTCCTCTTCTTTCTCCTTCATCTCTGGTGCTCCAACAA
AAAAAATGCTGCTGTAATGGACCAAGAGCCTGCAGGGAACAGAACAGCCAACAGCGAGGACTCTGATGAACAAGA
CCCTGAGGAGGTGACATACGCACAGTTGGATCACTGCGTTTTACACAGAGAAAAATCACTCGCCCTTCTCAGAG
GCCCAAGACACCCCTACAGATACCATCTTGACACGGAACCTCCAAATGCTAAGCCCAGATCCAAAGTTGTCTC
CTGCCCATGAGCACCACAGTCAGGCCTTGAGGACGTCTTCTAGGGAGACAACAGCCCTGTCTCAAAACCGAGTTG
CCAGCTCCCATGTACCAGCAGCTGGAATCTGAAGGCGTGAGTCTTCATCTTAGGGCATCGGTCCCTCCTCAGGCCA
CAAATCTGGTGCCTCTCTCTTGCTTACAAATGTCTAGGTCCCCACTGCCTGCTGGAAAGAAAAACACTCCTTTG
CTTAGCCACAGTTCTCCATTCACTTGACCCCTGCCACCTCTCCAACCTAACTGGCTTACTTCCTAGTCTACT
TGAGGCTGCAATCACACTGAGGAACTCACAATTCAAACATACAAGAGGCTCCCTCTTGACGTGGCACTTACCCA
CGTGCTGTTCCACCTTCCCTCATGCTGTTTCACCTTCTTCGGACTATTTTCCAGCCTTCTGTGACAGTGAAC
TTATAAAATTTTTTGTGATTTCATGTAGCTGTCTCCTCTTCAAATAAACATGTCTGCCCTCCAA

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FIGURE 2222

MLLMVSMACVGFFLVQRAGPHVGGQDKPFLSAWPSAVVPRGGHVTLRCHYRHRFNNFMYKEDRIHVPIFHGRL
FQESFNMSPVTTAHAGNYTCRGSHPHSPTGWSAPSNPVVIMVTGNHRKPSLLAHPGPLVKSGERVILQCWSDIMF
EHFFLHKEGISKDPSRLVGQIHDGVSKANFSIGPMMLALAGTYRCYGSVTHTPYQLSAPSDPLDIVVTGPYEKPS
LSAQPGPKVQAGESVTLSCSSRSSYDMYHLSRERGAHERRLPAVRKVNRTFQADFPLGPATHGGTYRCFGSFRHS
PYEWSDPDPLLVSVTGNPSSSWPSPTEPSSKSGNPRHLHILIGTSVVIILFILLFFLLHLWCSNKKNAAVMDQ
EPAGNRTANSEDSDEQDPEEVTYAQLDHCVFTQRKITRPSQRPKTPPTDTILYTELPNAKPRSKVVSCP

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FIGURE 2223

TTCCTCAGAAACGAGCAAACCTGAAAGCTACTCTCTCAGCTTCAGAGGGAAAAATGTTGTAGATTTCTGGACT
TGGGAGCAGACATTTCAAGAACTAATCCAAGAGGCCAAACCCGGGCCACATGGACGCTGAAGTTGGATGGCAAC
CTTCAGCTAGACTGCCTGGCTCAAGGGTGGAAGCAATACCAACAGAGAGCATTGGCTGGTTCCGGTGTTCCTCC
TGCCAGCGAAGTTGGGCTTCCGCCAAGTTGCAGATTCTGTGCCACACGTAAGTGGGAGCACTGGACATCCCAGGGT
CAGGTGCGTATGAGGCTCTTTGGCCAAAGGTGCCAGAAGTGCTCCTGGTCCCAATATGAGATGCCTGAGTTCTCC
TCGGATAGCACCATGAGGATTCTGAGCAACCTGGTGCAGCATATACTGAAGAAATACTATGGAAATGGCATGAGG
AAGTCTCCAGAAATGCCAGTAATCCTGGAAGTGTCCTGGAAGGATCCCATGACACAGCCAATTGTGAGGCATGC
ACTTTGGGCATATGTGGACAGGGCTTAAAAAGCTACATGACAAAGCCGTCCAAATCCCTACTCCCCACCTAAAG
ACTGGGAATTCCTCACCTGGAATTGGTGCTGTGTACCTCGCAAACCAAGCCAAGAACCAGTCAGATGAGGCAAAA
GAGGCTAAGGGGAGTGGGTATGAGAAATTAGGGCCCAGTCGAGACCCAGATCCACTGAACATCTGTGTCTTTATT
TTGCTGCTTGTATTTATTGTAGTCAAATGCTTTACATCAGAAATGATGAAAATAGGCTTGCCACTTTCTCTTATT
TAATTCCATGGTAGTCAATGAAGTGGCTGCCACTTAAATATAACTGAAAATTCATTTTGAGACCAAGCAGGATCA
AGTTTGTAGAATAAACACTGGTTTCCTAGCTATCCTCTGAAAACAGTATGAAACATGACCAAGTACATAATGGAT
TTAGTAATAAATATTGTCGAATTGCTAAAAA

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FIGURE 2224

MVVDFTWEQTFQELIQEAKPRATWTLKLDGNLQLDCLAQGWKQYQQRAFGWFRCSQQRSWASAKLQILCHTYW
EHWTSQGQVRMRLFGQRCQKCSWSQYEMPEFSSDSTMRIISNLVQHILKKYYGNGMRKSPEMPVILEVSLEGSHD
TANCEACTLGICGQGLKSYMTPSKSLLPHLKTGNSSPGIGAVYLANQAKNQSDAKEAKGSGYEKLGPSRDPDP
LNICVFILLLVFIVVKCFTSE

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FIGURE 2225

TAATAGTCACATGACACGTTTCCCGTCAAGATGCGGATACTCTCCCTTCGGAGTTTGATGTGATCGTAATAGGG
ACGGGTTTGCCTGAATCCATCATTGCAGCTGCATGTTCAAGAAGTGGCCGGAGAGTTCTGCATGTTGATTCAAGA
AGCTACTATGGAGGAACTGGGCCAGTTTGTAGCTTTTCAGGACTATTGTCTGGCTAAAGGAATACCAGGAAAAC
AGTGACATTGTAAGTGACAGTCCAGTGTGGCAAGACCAGATCCTTGAAATGAAGAAGCCATTGCTCTTAGCAGG
AAGGACAAAACCTATTCAACATGTGGAAGTATTTTGTATGCCAGTCAGGATTTGCATGAAGATGTCGAAGAAGCT
GGTGCACTGCAGAAAAATCATGCTCTTGTGACATCTGCAAACTCCACAGAAGCTGCAGATTCTGCCTTCCTGCCT
ACGGAGGATGAGTCATTAAGCACTATGAGCTGTGAAATGCTCACAGAACAACTCCAAGCAGCGATCCAGAGAAT
GCGCTAGAAGTAAATGGTGCTGAAGTGACAGGGGAAAAAGAAAACCATTTGTGATGATAAACTTGTGTGCCATCA
ACTTCAGCAGAAGACATGAGTGAAATGTGCCTATAGCAGAAGATACCACAGAGCAACCAAAGAAAAACAGAATT
ACTTACTCACAAATTATTAAGAAGGCAGGAGATTTAATATTGATTTAGTATCAAAGCTGCTGTATTCTCGAGGA
TTACTAATTGATCTTCTAATCAAATCTAATGTTAGTCGATATGCAGAGTTAAAAATATTACCAGGATTCTTGCA
TTTCGAGAAGGACGAGTGGAACAGGTTCCGTGTTCCAGAGCAGATGCTTTAATAGCAAACAACCTTACTATGGTA
GAAAAGCGAATGCTAATGAAATTTCTTACATTTTGTATGGAATATGAGAAATATCCTGATGAATATAAAGGATAT
GAAGAGATCACATTTTATGAATATTTAAAGACTCAAAAATTAACCCCCAACCTCCAATATATTGTCATGCATTCA
ATTGCAATGACATCAGAGACAGCCAGCAGCACCATAGATGGTCTCAAAGCTACCAAAAACCTTCTTCACTGTCTT
GGGCGGTATGGCAACACTCCATTTTGTTCCTTTATATGGCCAAGGAGAACTCCCCCAGTGTTTCTGCAGGATG
TGTGCTGTGTTTGGTGGAAATTTATTGCTTCGCCATTCACTACAGTGCCTTGTAGTGGACAAAGAATCCAGAAAA
TGTAAGCAATTATAGATCAGTTTGGTCAGAGAATAATCTCTGAGCATTTCCTCGTGGAGGACAGTTACTTTCTT
GAGAACATGTGCTCACGTGTGCAATACAGGCAGATCTCCAGGGCAGTGCTGATTACAGATAGATCTGTCTAAAA
ACAGATTCAGATCAACAGATTTCCATTTTGACAGTGCCAGCAGAGGAACCAGGAACCTTTGCTGTTCCGGTCATT
GAGTTATGTTCTTCAACGATGACATGCATGAAAGGCACCTATTTGGTTCAATTTGACTTGCACATCTTCTAAAACA
GCAAGAGAAGATTTAGAAATCAGTTGTGCAGAAATGTTTGTTCATATACTGAAATGGAGATAGAAAATGAACAA
GTAGAAAAGCCAAGAATTCTGTGGGCTCTTACTTCAATATGAGAGATTTCGTGAGACATCAGCAGGAGCTGTTAT
AATGATTTACCATCCAACGTTTATGTCTGCTCTGGCCCAGATTGTGGTTTAGGAAATGATAATGCAGTCAACAG
GCTGAAACACTTTTCCAGGAAATCTGCCCCAATGAAGATTTCTGTCCCCCTCCACCAAATCCTGAAGACATTATC
CTTGATGGAGACAGTTTACAGCCAGAGGCTTCAGAAATCCAGTGCCATACCAGAGGCTAACTCGGAGACTTTCAAG
GAAAGCACAAACCTTGGAACCTAGAGGAGTCTCTGAATTAATGGATATACACCAAACCTGGATACCAAACCTTTGG
AAATTCGACTGGTCTCAGAGTCTACTTGATAGAAGGACTGTTTGAGAAATGTTAGAAAGCAGCAGCAATTATAA
GGCAAAATAGGTAAT

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FIGURE 2226

MADTLPSEFDVIVIGTGLPESIIAAACSRSGRRVLHVDSRSYYGGNWASFSGLLSWLKEYQENSDIVSDSPVW
QDQILENEEAIALSRKDKTIQHVEVFCYASQDLHEDVEEAGALQKNHALVTSANSTEADSAFLPTEDESLSTMS
CEMLTEQTPSSDPENALEVNGAEVTGEKENHCDDKTCVPSTSAEDMSENVPIAEDTTEQPKNRITYSQIIEGR
RFNIDLVSLLYSRGLLIDLLIKSNVSRYAETFKNITRILAFREGRVEQVPCSRADVFNQKLTLMVEKRMLMKFLT
FCMEYEKYPDEYKGYEEITFYEYLKTQKLTPNLQYIVMHSIAMTSETASSTIDGLKATKNFLHCLGRYGNTPFLE
PLYGQGELPQCFCRMCAVFGGIYCLRHVSQCLVVDKESRKCKAIDQFGQRIIEHFLLVEDSYFPENMCSRQYR
QISRAVLITDRSVLKTSDQQISILTVPAEPEGTFAVRVIELCSSTMTCMKGTYLVLHCTCTSSKTAREDLSEVQ
KLFVPPYTEMEIENEQVEKPRILWALYFNMRDSSDISRSCYNDLPSNVYVCSGPDCLGNDNAVKQAETLFQEICP
NEDFCPPPPNPEDIILDGDSLQPEASESSAIPANSETFKESTNLGNLEESSE

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FIGURE 2227

GGGTGCGCTCGGCCGTGGCGCACCTGGTGAGCTCCGGGGGCGCTCCGCCTCCGCGCCCCAAATCCCCGGACCTGC
CCAACGCGCCTCGGCGCGCCCGCCGCGCTCCAGAAGCGCCAGGAGCCCTCCCGGAAGGCTGGGAGCGGGA
GCGCGACGCCCCGGAAGGCTGTTGAGGCTCGAGCGAGCTTCTCCAGACCGACCTTTCTGCAGCTGAGCCCCGGG
GGCTGCGACGCGCCGATGACCACGCGGGCCGGGCTGTGCAAAGCCCCCGACACGGGCCGCGCCTGCCCTGGA
GCACAGGCTACGCCGAGTGAGCGCCCCCTGGGGCACCCAAACCAGGATGGGGCTCCACCCCTCTCCCACTGC
GCATCCCCGGCGCTAGGACGCGTTCCCCACGCGCGCTCCGGGCCAGGAGCTCCCTTTCCGTGGACCTTTGCTAT
CCTCTGGTCTTTCGGGCCGACCCCTCCCAACCCATTTCCAGTGGGGGCGAGCCTGTGTACCTTCTTCAGTCT
CTTCCCGCTCATTGACTGCCCTCGCCACGCGCCTCAGGACCCTGTTCTGCCCCAGAGCCCGAGGGCGGAGAG
CCCGCGGAAGGATGAGTTGGCCAGTTCCCCGTGCGGGCCGGCAGCTTAAAGGCTAAGGAAAAGGGTTTCACG
AAGGAGCGGGTTCTTTTAAAGGGGACATAGCGGTTGGGAAGACTCGCTCACCCGCTCCCGGCTCCAGCGCC
CCAGTTCCCTGTCCCTCTTACCGTAGTTCCCTCCCTCCACACCCAGAAATAGCCCGGACACCCAGGAGGCCG
CCAGCTTCCCGAGGAGCGGGGAGGGGACGCGCGGGTAGAGGAGGGTCCCATTTAGATGCCCTTCAGCTGCCA
ACTCGTGCTGGCCTGGCAAAGAAGCGGACCCCTGCCCGGAGCGCGCGCTGGCCCCGGGCTGTGTGTATTTTA
AATGCATCTGCCGGGAACGCAGAGCACCGAGGGAGATGGGGCGCTCAGTTCGCTGAGGAAGGTGGCTGGTGCC
CATGGACCCACCACCTCCCTTAGCCTCCTGTGTGGGAGGAGTTTATGGGTATGTGGCTCCTGCCAGTCCAG
GTGGGCTTTCACCTTCTACTCTATTTTCACTTCTTTCCGATCTGGGCTGGAGAGCTTCTCATTGTTAAGGCA
GCAGAACTTTCGCTGGATGGTTTTAGGATAAGGGGTCAATATGCTGGCAAGAGTCGGCACAATGAGGACCAGG
CTTGCTGTGAAGTGGTGTATGTGGAAGGTGGGAGGAGTGTACAGGAGTACCTAGGGAGCCTAGCCGAGGCCAGG
GACTCTGCTTCTACTACTGGGCCTATTTGATGGGCATGCAGGGGGCGGAGCTGCTGAAATGGCCTCACGGCTCC
TGCATCGCCATATCCGAGAGCAGCTAAAGGACCTGAAGGAAGTGAGCCACGAGAGCCTGGTAGTGGGGGCCATTG
AGAATGCCTTCCAGCTCATGGATGAGCAGATGGCCCGGAGCGGCGTGGCCACCAAGTGGAGGGGGGCTGCTGTG
CACTGGTTGTGATCTACCTGCTAGGCAAGGTGTACGTGGCCAATGCAGGCGATAGCAGGGCCATCATTGTCCGGA
ATGGTGAAATCATTCCAATGTCCCGGAGTTTACCCCGGAGACTGAGCGCCAGCGTCTTCAGCTGCTTGGCTTCC
TGAAACCAGAGCTGCTAGGCAGTGAATTCACCCACCTTGAGTTCCCCCGCAGAGTCTGCCCAAGGAGCTGGGGC
AGAGGATGTTGTACCGGGACCAGAACATGACCGGCTGGGCCTACAAAAAGATCGAGCTGGAGGATCTCAGGTTTC
CTCTGGTCTGTGGGGAGGGCAAAAAGGCTCGGGTGATGGCCACCATTGGGGTGACCCGAGGCTTGGGAGACCACA
GCCTTAAGGTCTGCAGTTCCACCCTGCCCATCAAGCCCTTTCTCTCCTGCTTCCCTGAGGTACGAGTGTATGACC
TGACACAATATGAGCACTGCCAGATGATGTGCTAGTCTGGGAACAGATGGCCTGTGGGATGTCACTACTGACT
GTGAGGTAGCTGCCACTGTGGACAGGGTGCTGTGGCCTATGAGCCTAATGACCACAGCAGGTATACAGCTCTGG
CCCAAGCTCTGGTCTGGGGGCCCGGGTACCCCCGAGACCGTGGCTGGCGTCTCCCAACAACAAGCTGGGTT
CCGGGGATGACATCTCTGTCTTCGTCTATCCCCCTGGGAGGGCCAGGCAGTTACTCTCTGAGGGGCTGAACACCATC
CTCCCACTAGCCTCTCCATACTTACTCTCTCACAGCCCAAATTCTGAAGTTGTCTCCCTGACCCTTCTTTAGT
GGCAACTTAAGTGAAGAAGGGATGTCCGCTATATCCAAATTACAGCTATTGGCAAATAAACGAGATGGATAAAA
AA

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FIGURE 2228

MASRLLRHIREQLKDLKEVSHESLVVGAIENAFQLMDEQMARERRGHQVEGGCCALVVIYLLGKVYVANAGDSR
AIIVRNGEIIIPMSREFTPETERQRLQLLGFLKPELLGSEFTHLEFPRRVLPKELGQRMLYRDQNMTGWAYKKIEL
EDLRFPLVCGEGKKARVMATIGVTRGLGDHSLKVCSSILPIKPFLSCFPEVRVYDLTQYEHCPDDVLVLGTDGLW
DVTTDCEVAATVDRVLSAYEPNDHSRYTALAQAALVLGARGTPRDRGWRLPNNKLGSGDDISVFVIPLGGPGSYS

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FIGURE 2229

GCACAGACAGCACCAATGTCGCTCATGGTCGTCAGCATGGCGTGTGTTGGGTTCTTCTTGCTGCAGGGGGCCTGGC
CACATGAGGGAGTCCACAGAAAACCTTCCCTCCTGGCCACCCAGGTCGCCTGGTGAAATCAGAAGAGACAGTCA
TCCTGCAATGTTGGTCAGATGTCAGGTTTGAGCACTTCTTCTGCACAGAGAAGGGAAGTTTAAGGACACTTTGC
ACCTCATTGGAGAGCACCATGATGGGGTCTCCAAAGCCAACCTTCTCCATCGGTCCCATGATGCAAGACCTTGCAG
GGACCTACAGATGCTACGGTTCGTACTACTCCCCCTATCAGTTGTCAGCTCCCAGTGACCCTCTGGACATCG
TCATCACAGGTCTATATGAGAAAACCTTCTCTCTCAGCCCAGCCGGGCCCCACGGTTCCTGGCAGGAGAGAGCGTGA
CCTTGTCTGCAGCTCCCGGAGCTCCTATGACATGTACCATCTATCCAGGGAGGGGGAGGCCCATGAATGTAGGT
TCTCTGCAGGGCCCCAAGGTCAACGGAACATTCCAGGCCGACTTTCTCTGGGGCCCTGCCACCCACGGAGGAACCT
ACAGATGCTTCGGCTCTTTCCGTGACTCTCCATACGAGTGGTCAAACCTCGAGTGACCCACTGCTTGTTTCTGTCA
TAGGAAACCCCTTCAAATAGTTGGCCTTCACCCACTGAACCAAGCTCTAAAACCGGTAACCCCCGACACCTGCACA
TTCTGATTGGGACCTCAGTGGTCATCATCCTCTTCATCCTCCTCTTCTTTCTCCTTCATCGCTGGTGCTCCAACA
AAAAAATGCTGCGGTAATGGACCAAGAGTCTGCAGGGAACAGAACAGCGAATAGCGAGGACTCTGATGAACAAG
ACCCTCAGGAGGTGACATACACACAGTTGAATCACTGCGTTTTACACAGAGAAAAATCACTCGCCCTTCTCAGA
GGCCCCAAGACACCCCCAACAGATATCATCGTGACGCGGAACCTTCAAATGCTGAGTCCAGATCCAAAGTTGTCT
CCTGCCCCATGAGACCCACAGTCAGGCCCTGAGGGCGTCTTCTAGGGAGACAACAGCCCTGTCTCAAACCGGGTT
GCCAGCTCCCATGTACCAGCAGCTGGAATCTGAAGGCATGAGTCTGCATCTTAGGGCATCGCTCTTCTCTCACACC
ACAAATCTGAATGTGCCTCTCACTTGCTTACAAATGTCTAAGGTCCCCACTGCCTGCTGGAGAAAAAACACACTC
CTTTGCTTAGCCACAGTTCTCCATTTCACTTGACCCCTGCCACCTCTCCAACCTAACTGGCTTACTTCCTAGT
CTACTTGAGGCTGCAATCACACTGAGGAACTCACAATTCAAACATACAAGAGGCTCCCTCTTAACGCAGCACTT
AGACACGTGTTGTTCCACCTCCCTCATGTGTTCCACCTCCCTCAGACTAGCTTTCAGTCTTCTGTGACGAGT
AAAACCTTATATATTTTTTAAATAAATTCAATGTAGTTTTCCATCCTTCAAATAAACATGTCTGCCCCCATG

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FIGURE 2230

MSLMVVSMACVGFFLLQGAWPHEGVHRKPSLLAHPGRLVKSEETVILQCWSDVRFEHFLHREGKFKDTLHLIGE
HHDGVSKANFSIGPMMQDLAGTYRCYGSVTHSPYQLSAPSDPLDIVITGLYEKPSLSAQPGPTVLAGESVTLSCS
SRSSYDMYHLSREGEAHECRFSAGPKVNGTFQADFPLGPATHGGTYRCFGSFRDSPYEWSNSSDPLLVSIGNPS
NSWPSPTESPSSKTGNPRHLHLIGTSVVIILFILLFLLHRWCSNKKNAAVMDQESAGNRTANSEDSDEQDPQEV
TYTQLNHCVFTQRKITRPSQRPKTPPTDIIVYAELPNAESRSKVVSCP

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FIGURE 2231

TAAAAC TTTAGGAAATTAGTACCAGACTTTTATATTGGTCAACAGCAAAATGAACATTACTACTCAGCCTCCAAC
ACATGCAGTTTGCCATATACCAGGGATCCTGTCAAAATATACACCACTTATAGCTTCTTAAGTGCAGTTATCATAG
AGCACAGTCCCTGACATCACACAGCTGCAGAGATGAATAAAACAAAGAGGAACCTACTCAGAAGTGAGTCTGGCCC
AGGACCCAAAGAGGCAGCAAGGAACTTAAGGGCAATAAAATCTCCATTTAGGAACCAACAGGAAATATTCC
AAGTAGAATTAAACCTTCAAAATGCTTCTTCGGATCATCAAGGGAATGACAAGACATATCACTGCAAAGGTTTAC
TGCCACCTCCAGAGAAGCTCACTGCTGAGGTCCTAGGAATCATTTCGATTGTCCTGATGGCCACTGTGTTAAAAA
CAATAGTTCTTATTCCTTGTATTGGAGTACTGGAGCAGAACAATTTTTCCCTGAATAGAAGAATGCAGAAAGCAC
GTCATTGTGGCCATTGTCCTGAGGAGTGGATTACATATTTCCAACAGTTGTTATTACATTGGTAAGGAAAGAAGAA
CTTGGGAAGAAAGAGTTTGCTGGCCTGTGCTTCGAAGAACTCTGATCTGCTTTCTATAGATAATGAGGAAGAAAT
GGTAAGACGTAAATGTTTCAACACTTTACTAAAAGCTTATTTCTGTCAATATCATATTTGTAGAAATCATCCATA
TGTTTATACATATATTTACTTCATATATTTTAAGTCTGTGTAGTATTCAACTGACTTCATAATATTTTTATATT
CATATACTGTTAATGCACATTGGTTATTTCCAGTTTTGCTTTTCATGGAAACCCATGCTTCTATAAATGTTTTT
ATCACAAAATAAATATAAAGAAAAC TAAAAAAAAAACCAAAAAAAAAAAAAAAAAAAGGCGGCCGCGATATAG

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FIGURE 2232

MNKQRGTYSVSLAQDPKRQQRKLKGNKISISGKQEIFQVELNLQNASSDHQNDKTYHCKGLLPPEKLTAEV
LGIICIVLMATVLKTIIVLIPCIGVLEQNNFSLNRRMQARHCGHCPEEWITYSNSCYIYIGKERRTWEERVCPVL
RRTLICFL

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FIGURE 2233

GGCGGCGGCAGCGGGTTGCGTTGCGCGTGGCGCACGGGGTGGGAGCGGAGCCCAGGCCGGGAGCAGGCGCCGCCG
CCAGCGACCATGGGGAACGTGTTGGCTGCCAGCTCGCCGCCCGCAGGGCCGCCACCGCCGCCTGCGCCGGCCCTC
GTGGGGCTGCCGCCACCTCCGCCCTCGCCGCCGGGCTTCACGCTGCCGCCGCTGGGAGGCAGCCTGGGCGCCGGC
ACCACTACGAGTCGAAGTTCGGAACGGACCCCCGGGGCTGCAACCGCCAGCGCCTCAGGGGCCGCCGAGGATGGG
GCCTGCGGCTGCCTGCCCAACCGGGGCACATTTCAGGAGTGCCACCGGAAGTGCAAGGAGCTGTTTCCATTTCAG
ATGGAGGGTGTCAAGCTCACAGTCAACAAAGGGTTGAGTAACCATTTTCAGGTCAACCACACAGTAGCCCTCAGC
ACAATCGGGGAGTCCAACTACCACTTCGGGGTCACATATGTGGGGACAAAGCAGCTGAGTCCCACAGAGGCGTTC
CCTGTACTGGTGGGTGACATGGACAACAGTGGCAGTCTCAACGCTCAGGTCATTACCACTGGGCCCCGGTCTC
AGGTCCAAGATGGCCATCCAGACCCAGCAGTCGAAGTTGTGAACGGCAGGTGGACGGGGAGTATCGGGGCTCT
GACTTCACAGCAGCCGTCACCTGGGGAAACCCAGACGTCCTCGTGGGTTTCAGGAATCCTCGTAGCCCACTACCTC
CAGAGCATCACGCCTTGCTGGCCCTGGGTGGAGAGCTGGTCTACCACCGCGGCCCTGGAGAGGAGGGCACTGTC
ATGTCTCTAGCTGGGAAATACACATTGAACAACGGTTGGCAACGGTAACGTTGGGCCAGGCGGGCATGCACGCA
ACATACTACCACAAAGCCAGTGACCAGCTGCAGGTGGGTGTGGAGTTTGAGGCCAGCACAAGGATGCAGGACACC
AGCGTCTCCTTCGGGTACCAGCTGGACCTGCCCCAAGGCCAACCTCCTCTCAAAGGCTCTGTGGATAGCAACTGG
ATCGTGGGTGCCACGCTGGAGAAGAAGCTCCCACCCCTGCCCTGACACTGGCCCTTGGGGCCTTCCCTGAATCAC
CGCAAGAACAAGTTTCAGTGTGGCTTTGGCCTCACCATCGGCTTGAGCCCTCCTGGCCCCCGCCTTCCACGCCCTT
CCGATTCCACCTCCACCTCCACCTCCCCCTGCCACAGAGGGGAGACCTGAGCCCCCTCCCTTCCCTCCCCCTT
GGGGGTGCGGGGGGGACATTGGAAAGGAGGGACCCCGCCACCCAGCAGCTGAGGAGGGGATTCTGGAACGAAT
GGCGCTTCGGGATTCTGAGTAGCAGGGGCAGCATGCCAGTGGGCCTGGGGTCCCGGGAGGGATTCCGGAATTGA
GGGGCACGCAGGATTCTGAGCACCAGGGGCAGAGGCGGCCAGACAACCTCAGGGAGGAGTGTCTGGCGTCCCCA
TCCTCCAAAGGGCCTGGGCCCCGCCCGAGGGGGCAGCGAGAGGAGCTTCCCCATCCCCGGTCAGTCCACCCTGCC
CCGTCCACTTTCCCATCTCCTCGGTATAAATCATGTTTATAAGTTATGGAAGAACCGGGACATTTTACAGAAAAA
AAACAAAAACAACAAAAATATACGTGGGAAAAAAAAAAAAAAAAAAAA

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FIGURE 2234

MGNVLAASSPPAGPPPPAPALVGLPPPPSPPGFTLPPLGGSLGAGTSTSRSSERTPGAATASASGAAEDGACG
CLPNPGTFEECHRKCKELFPIQMEGVKLTVNKGLSNHFQVNHTVALSTIGESNYHFGVTYVGTKQLSPTEAFPVL
VGDMDNSGSLNAQVIHQLGPLRSKMAIQQQSKFVNWQVDGEYRGSDFTAATLGNPDVLVGSGILVAHYLQSI
TPCLALGGELVYHRRPGEETVMSLAGKYTLNNWLATVTLGQAGMHATYYHKASDQLQVGVEFEASTRMQDTSVS
FGYQLDLPKANLLFKGSVDSNWIVGATLEKKLPPLPLTLALGAFLNHRKNKFQCGFGLTIG

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FIGURE 2235

ACCTCCTGTACCTCTTAGCTTGTTAATTTTTTTTACAGCATTATCAGTTTCCAGTTGTACCCCTACAATAATG
TACGTTCCAAGTGCCTGAAATAGTGCCTAGCACATAATGTGTGAAACACACACACACACACATACCCATAA
CCCACTGAATGAATGAAGAGAAACCGAAAAATAAAAGTATAATATCCCATCCCTGATCACTCTCCAGAAATGTA
TACTTCCAAGGAACCTGCATATTTCTATAGGTAGAATAATTGATGATGATAATAACAGTAATAGCTATATTTGAA
TGTCATTATTTACACTAATATTCACAGCAACTCTGCAAAGTAGTTATTATGAAGAGACTGAGGTGCAGAGAAGA
AAGTTCACATAACTGCTAGGTGCTGAAGCTGAGATTGTAACTATTGGATATCTGAATCCAGGGGTCATGCTCTT
CCCATTAACTGCATTGTTATATTATTCACAAATGTAACAAATATCAAAGAAAATCTTGGCATTTCATTTTAA
GAGGAATTAGGAAGGAAAACAAATAGGTATATAAAGGTCAGCCTAAGTTGTCAGCAATCTTTTTCCTTAATCTGT
AAGAATCTTGCTCATCGATCAGGGTGCTGTTAATCACACTAGGTCCCAATCTCTTAATAAGGGAGTTGGGAGGGG
TGTTTCATCCTAGGACAGGAGTCATCAGACTCGGTAGAGTAATGAAAAGGATTATAATACTAATTTCTGAAGAG
AATGTGGGACTGAAGCTAAAAATACTCACTATAAAGTAACTCTTTTGGCTATAGTCTATTATATCACAAAAATAT
TATAAAAAATCCTCAGGTTCTTTCTATCTTCCACACCTAATTTTCAAACCGATCAATTTTTTAAAGCCACTTAA
CGTGTGTGTAATTACTACTGTGGTCTCCTAGCACAGACAACAGCTGCTGACTGCTGTGGTATTGGCACGGATCAT
GTAGTCTATAGAGAATTTGATAAAAAGACTCCAAACAATTTATGCCCTGTGCTGTTACAGAGGAGAACAAAATG
CTTTCAGCAAGGATTTGAAAACCTCTCCGTCCCTGCAGGAAAGGATTGATGCTGATAGAAGAGCCTGGACAGATG
TAATGAGAACTAAAGAAAACAGATGGCTGGAGATGACATTTATCCAGGGTCACTTTGTGTCAGGCCCTAGGACTTAA
ATCGAAGTTGAACTTTTTTTTTTTAAACCAATAGATAGGGGAAGGGAGGGAGAGGGAGGACAGGGAGAGAAA
ATACCATGCATAAATTGTTTACTGAATTTTTATATCTGAGTGTTCAAAATATTTCCAAGCCTGAGTATTGTCTAT
TGGTATAGATTTTTTAGAAATCAATAATTGATTATTTATTGCACTTATTACAATGCCTGAAAAAGTGCACCACAT
GGATGTTAAGTAGAAATCAAGAAAGTAAGATGTCTTCAGCAACTCAGTAAAACCTTACGCCACCTTTTGGTTTG
TAAAAGGTTTTTTATACATTTCAAACAGGTTGCACAAAAGTTAAAATAATGGGGTCTTTTATAAATCCAAAGTAC
TGTGAAAACATTTTACATATTTTTTAAATCTTCTGACTAATGCTAAAACGTAATCTAATTAAATTTTATACAGTT
ACTGCAGTAAGCATTAGGAAGTGAATATGATATACAAAATAGTTTATAAAGACTCTATAGTTCCTATAATTTATT
TTACTGGCAAATGTCATGCAACAATAATAAATTATTGTAACTTTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAA

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FIGURE 2236

MGYYTFIFSVSLHSFSGLWVCVCVCVCFTHYVLGTISGTWNVHYCRGTTGN

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FIGURE 2237

GGGGAGAGCGGGTGTGTTGAAGGCTCCGCGGACCGGCACTAGGAGCCGGGGGGCGGGTCCGTGACCCTCCGGCTGCT
CGGAGTGAACAGGCGGCCAGGAAAGAAGCGGGCTGAACACCATGATCCCTTTGGAGAAGCCAGGCAGCGGGCGG
TCCTCCCCAGGCGCCACCTCAGGCTCGGGCCGGGCAGGCCGGGGTCTGAGCGGGCCGTGCCGGCCGCCCGCCG
CCCCAGGCCCGCGGGCTGCTGACAGAGATACGCGCCGTGGTGCGCACCGAGCCCTTCCAGGACGGCTACAGCCTG
TGCCCGGGCCGGGAGCTGGGCAGGGGAAAATTTGCAGTGGTGAGAAAATGTATAAAGAAAGATTCTGGGAAAGAA
TTTGCTGCAAAGTTCATGAGAAAAAGAAAAGGCCAAGATTGTCGGATGGAATAATTTCATGAGATTGCTGTA
CTTGAACTAGCACAGACAATCCTTGGGTCATTAATTTACATGAAGTTTATGAGACTGCATCAGAAATGATCTTA
GTTCTGGAATATGCTGCTGGGGGTGAAATCTTTGACCAGTGTGTTGCAGACAGAGAAGAAGCCTTTAAAGAAAAA
GATGTTCAAAGACTTATGCGACAGATTTTAGAAGGTGTTCACTTTTTACACACTCGTGATGTAGTTCATCTTGAT
TTGAAGCCTCAGAATATTCTGTTGACAAGTGAATCTCCATTGGGTGACATTAAGATTGTTGATTTTGGCCTTTCA
AGAATATTGAAGAACAGTGAAGAGCTCCGAGAAATTATGGGTACCCCTGAATATGTGGCTCCTGAAATCTTAGT
TATGATCCTATAAGCATGGCAACAGATATGTGGAGCATTGGAGTGTTAACATATGTCATGCTTACAGGAATATCA
CCTTTCTTAGGCAATGATAAACAAGAACATTCTTAAACATCTCACAGATGAATTTAAGTTATTCTGAGGAAGAA
TTTGATGTTTTGTCTGAGTCGGCTGTTGATTTTCATCAGGACACTTTTAGTTAAGAAACCTGAAGATCGAGCCACT
GCTGAAGAATGTCTAAAGCACCCCTGGTTGACACAGAGCAGTATTCAAGAGCCTTCTTTCAGGATGGAAGGCA
CTAGAAGAAGCAAATGCCCTCCAAGAAGGTCATTCTGTGCCTGAAATTAATTCGGATACCGACAAATCAGAAACC
GAGGAATCCATTGTAACCGAAGAGTTAATTGTAGTTACTTCATATACTCTAGGACAATGCAGACAGTCTGAAAAA
GAGAAATGGAGCAAAGGCCATTTCCAAACGATTTAAATTTGAGGAACCTTTGCTACAAGAAATTCAGGAGAA
TTTATCTACTGAGCAATATTTCCCTTTAGAACTTCAAGATTCTACACTGAAAATGTTAATATTATTTATGGACC
TCTGGCCAAATGGTACATGTACTGGAAGTGGATAACCAGTATCACTTACACAAACAAAAATAACTTTGTCAAATT
TGTGGAGTTAGGTGGAAGCCAGATTTTAAAGTTGCCAACCAGGATATTTAACAGGTACAGTTACCCGTTTCAAT
GTTATTTTTAAGAAGGGAGATGTTGGCACCTTTGAATTTCTACATCCTGTTTCTCCAGAATGAGAAATTTGTGTACA
AAGATATTTGTATTCACTTTCTTTAAAAATCCAAGTAAAAGTGCCAAAACCTACATTTCTGTAAATCTCTTGCAAT
TATTCATATGTGTATCTATATCTGCATAATGTTTGTTAATGTCTACTAAAATTGCTACTTTTTCACTTTTGGAATTT
GTTTTTGGCAAAATTTTAGTCTAAACAGACATCTAAATTTTCGAGACTTAGAATAACATTCATAAGTTTGATA
ATGTCTTTTTTAAATATTTTCTTACTGCTTTATAGTGACTTGATTTGGTTTTCTGTTGTGTTTTTGCCATAAATACT
AGTAACATATCAGTGAAAAACCTAATTTTTTTCTCTTCAATGTCACTAGTAAGAGAGGTGGTAATTTTTCACC
TCTGAAATTTATCTGGGTTTAGGTGTCAGCTTTTGAGCTGCTTCCCTCATCACACCACACTCATATGCATCTGTT
CTCTCTCACACTCTATACCCCTGCCACTTCCCTGGCACCTCCCCCATGCTTGTCATTTAATTTTGGCCACTTGTA
GGTATCAGTGTGATCTGATCAACACTCTGGTTACCTTGGTCAGTGAAAAGATGCTACTATATTGCTTTTGTCCCA
AAGTGAGTAAAATCCCCTAGAGCAGAGAGAGAGAGAGAGAGAGAGTGTCTTCATGCCAACCACAGCCTGTTTCTG
CTGAGTTTCTTATCAGCCCTCAAGCTATGCTAGGAAAAGTTATAAAATGCCAAAATATTTATAAACATTTACTTT
GTCCATAAAAAATTTACATTGGATACTCTGTAAGTAGGAGGTACTTTGTCCCAAAAAGATGTATAAGAATGTACT
AATAGTTTTATTGATTAGGATTGAACAGTTCAGTTGTATCTATGCCCCACAGTGACCAGTAAAGTCCAATTAAA
ATATGGAAATGTAAAAGTGTATGCCGAATACCTTAAAGTAACTAATTATCCTTACACACAAAAGGCTCAGTGCAT
TAAATATTTGCCTATC

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FIGURE 2238

MIPLEKPGSGGSSPGATSGSGRAGRGLSGPCRPPPPQARGLLTEIRAVVRTEPFQDGYSLCPGRELGKFAVV
RKCICKDSGKEFAAKFMRKRRKGQDCRMEIIHEIAVLELAQDNPWVINLHEVYETASEMILVLEYAAGGEIFDQC
VADREEAFKEKDVQRLMRQILEGVHFLHTRDVVHDLKPQNILLTSESPLGDIKIVDFGLSRILKNSEELREIMG
TPEYVAPEILSYDPISMATDMWSIGVLTIVMLTGISPFLGNDKQETFLNISQMNLSEEEFVDLSESAVDFIRT
LLVKKPEDRATAEECLKHPWLTQSSIQEPSFRMEKALEEANALQEGHSVPEINSDTKSETEESIVTEELIVVTS
YTLGQCRQSEKEKMEQKAISKRFKEEPLLQEIPGEFIY

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FIGURE 2239

CTTTCGCGCGGCGGAAGAGCGCGGCCAGCTTCGGCACACTTGGGAGCCGGATCCCAGCCCTACGCCTCGTCCC
CTACAAGCTCCTCCAAGCCCCGCGGCTGCTGTGGGAGCGGCGGCCGTCTCTCTGGAGGTCGTCTCTGGCAT
CCTCGGGGCGCGAGGAAGGAAGAGGAGGCAGCGGCCGGAGCCCTGGTGGGCGGCCTGAGGTGAGAGCCCGACCGG
CCCCTTTGGGAATATCGCGACCGGTGGCTACCGGACCAGCAGCGGCCCTCGGCGGCAGCACCACAGACTTCCTGGA
GGAGTGAAGGCGAAACGCGAGAAGATGCGCGCAAGCAGAACCCCCGGGCCCGGCCCGGGAGGGGGCAG
CAGCGACGCGCTGGGAAGCCCCCGGGGGGCTCTGGGCACCCCGCGGCGCGCGCTGCCAACGAGCTCAACAA
CAACCTCCCGGGCGCGCGCGCGGCCGACCTGCCGTCCCCGGTCCCGGGGGCGTGAAGTGCAGGTCGGCTCCGC
CATGCTGACGCGGGCGCCCCGGCCCGCGGCGCGGCGGTGCGAGGACGAGCCCCAGCCGCCTCTGCCTCGGC
TGCACCGCGCCCCAGCGTGACGAGGAGGAGCCGGACGGCGTCCCAGAGAAGGGCAAGAGCTCGGGCCCCAGTGC
CAGGAAAGGCAAGGGGCAGATCGAGAAGAGGAAGCTGCGGGAGAAGCGGCGCTCCACCGCGGTGGTCAACATCCC
TGCCGCAGAGTGCTTAGATGAGTACGAAGATGATGAAGCAGGGCAGAAAGAGCGGAAACGAGAAGATGCAATTAC
ACAACAGAACTATTTCAGAAATGAAGCTGTAACTTACTAGATCCAGGCAGTTTCTATCTGTACAGGAGCCACC
TAGAACAGTTTCAGGCAGATATAAAAGCACAACCAAGTGTCTCTGAAGAAGATGTCTCAAGTAGATATTCTGAAC
AGATAGAAGTGGGTTCCCTAGATATAACAGGGATGCAAAATGTTTCAGGTACTCTGGTTTCAAGTAGCACACTGGA
AAAGAAAATTGAAGATCTTGAAGGAAGTAGTAACAGAAAGACAAGAAAACCTAAGACTTGTGAGACTGATGCA
AGATAAAGAGGAAATGATTGGAAGAACTCAAAGAAGAAATGATTTATTAAATAGAGACCTAGATGACATAGAAGA
TGAAAATGAACAGCTAAAGCAGGAAAATAAACTCTTTTGAAGTTGTGGGTGAGCTGACCAGGTAGAGGATTCA
AGACTCAATGTGGAAAAATATTTTAACTACTGATTGAATGTTAATGGTCAATGCTAGCACAAATATTCCTATGC
TGCAATACATTAAATAACTAAGCAAGTATATTTATTTCTAGCAAACAGATGTTTGTTCAAAATACCTCTTTT
TCATTATTGGTTTTTAAAAAGCATTATCCTTTTATCTCACAAATAAGTAATATCTTTTCAGTTATTAAATGATAGA
TAATGCCTTTTTTGGTTTTTGTGGTATTCACTAATACATGGTTTAAAGTCACAGCCGTTTGAATATATTTTATC
TTGGTAGTACATTTTCTCCCTTAGGAATATACATAGTCTTTGTTTACATGAGTTCCAATATCTTTGGGATGTTAC
CCTCACATGTCCCTATACTGATGTGTGCCACCTTTTATGTGTTGATGACTCACTCATAAGGTTTTTGGTC

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FIGURE 2240

MATGGYRTSSGLGGSTTDFLEEWKAKREKMRKQNPFGPAPPGGGSSDAAGKPPAGALGTPAAAAANELNNNLPG
GAPAAPAVPGPGGVNCAVGSAMLTRAPPARGPRRSEDEPPAASASAAPPPQRDEEEFDGVPEKGKSSGSPSARKGK
GQIEKRKLREKRRSTGVVNIPAAECLDEYEDDEAGQKERKREDAITQQNTIQNEAVNLLDPGSSYLLQEPPRTVS
GRYKSTTSVSEEDVSSRYSRTDRSGFPRYNRDANVSGTLVSSSTLEKKIEDLEKEVVTERQENLRLVRLMQDKEE
MIGKLKEEIDLLNRDLDDIEDENEQLKQENKTLKVVGQLTR

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FIGURE 2241

AGGCCGCGCTCGCGCCGAGGGGCTGCGAGAGTGACCGCGGCTGCTCCAGCGCTGACGCCGAGCCATGGCGGACGA
GGAGCTTGAGGCGCTGAGGAGACAGAGGCTGGCCGAGCTGCAGGCCAAACACGGGGATCCTGGTGATGCGGCCCCA
ACAGGAAGCAAAGCACAGGAAGCAGAAATGAGAAACAGTATCTTAGCCCAAGTTCTGGATCAGTCGGCCCGGGC
CAGGTTAAGTAACTTAGCACTTGTAAGCCTGAAAAACTAAAGCAGTAGAGAATTACCTTATACAGATGGCAAG
ATATGGACAACCTAAGTGAGAAGGTATCAGAACAAGGTTAATAGAAATCCTTAAAAAAGTAAGCCAACAAACAGA
AAAGACAACAACAGTGAAATTCAACAGAAGAAAAGTAATGGACTCTGATGAAGATGACGATTATTGAACTACAAG
TGCTCACAGACTAGAACTTAACGGAACAAGTCTAGGACAGAAGTTAAGATCTGATTATTACTTTGTTTATTGTC
TATATGCCTTTTAAAAAAATAAACTTGTTATGCAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2242

MADEELEALRRQRLAELQAKHGDPGDAAQQEAKHREAEMRNSILAQVLDQSARARLSNLALVKPEKTKAVENYLI
QMARYGQLSEKVSEQGLIEILKKVSQQTEKTTTVKFNRKVMDSDEDDY

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FIGURE 2243

GCCCCCTCCCTCCGCCCCGCCGCCGCCGCCGTCAGTCTGGCAGGCAGGCAGGCAATCGGTCCGAGTGGCTGTC
GGCTCTTCAGCTCTCCCGCTCGGCGTCTTCCTTCCTCCTCCCGGTCAGCGTCGGCGGCTGCACCGCGCGCGCGC
AGTCCCTGCGGGAGGGGCGACAAGAGCTGAGCGGCGGCCGCCGAGCGTCGAGCTCAGCGCGGCGAGGCGGCGGC
GGCCCCGCGAGCCAACATGCGGCGCGGCGGCGGCGGCGGCCGCGGAGATGGTCCGCGGCGAGGTGTTTCGAC
GTGGGGCGCGCTACACCAACCTCTCGTACATCGGCGAGGGCGCCTACGGCATGGTGTGCTCTGCTTATGATAAT
GTCAACAAAGTTCGAGTAGCTATCAAGAAAATCAGCCCCCTTTGAGCACCAGACCTACTGCCAGAGAACCCTGAGG
GAGATAAAAATCTTACTGCGCTTCAGACATGAGAACATCATTGGAATCAATGACATTATTCGAGCACCAACCATC
GAGCAAATGAAAGATGTATATATAGTACAGGACCTCATGGAAACAGATCTTTACAAGCTCTTGAAGACACAACAC
CTCAGCAATGACCATATCTGCTATTTTCTCTACCAGATCCTCAGAGGGTTAAAATATATCCATTACGTAACGTT
CTGCACCGTGACCTCAAGCCTTCCAACCTGCTGCTCAACACCACCTGTGATCTCAAGATCTGTGACTTTGGCCTG
GCCCCGTGTTGCAGATCCAGACCATGATCACACAGGGTTCTTGACAGAATATGTGGCCACACGTTGGTACAGGGCT
CCAGAAATTATGTTGAATTCCAAGGGCTACACCAAGTCCATTGATATTGGTCTGTAGGCTGCATTCTGGCAGAA
ATGCTTTCTAACAGGCCCATCTTTCCAGGGAAGCATTATCTTGACCAGCTGAAACACATTTTGGGTATTCTTGGA
TCCCCATCACAAGAAGACCTGAATTGTATAATAAATTTAAAAGCTAGGAACCTATTTGCTTTCTCTCCACACAAA
AATAAGGTGCCATGGAACAGGCTGTTCCCAAATGCTGACTCCAAAGCTCTGGACTTATTGGACAAAATGTTGACA
TTCAACCCACACAAGAGGATTGAAGTAGAACAGGCTCTGCCCCACCCATATCTGGAGCAGTATTACGACCCGAGT
GACGAGCCCATCGCCGAAGCACCATTCAAGTTCGACATGGAATTGGATGACTTGCCTAAGGAAAAGCTCAAAGAA
CTAATTTTGAAGAGACTGCTAGATTCCAGCCAGGATACAGATCTTAAATTTGTCAGGACAAGGGCTCAGAGGAC
TGGACGTGCTCAGACATCGGTGTTCTTCTCCAGTTCTTGACCCCTGGTCTGTCTCCAGCCCGTCTTGCCCTTA
TCCACTTTGACTCCTTTGAGCCGTTTGGAGGGCGGTTCTGGTAGTTGTGGCTTTTATGCTTTCAAAGAATTTCT
TTAGTCCAGAGAATTCCTCCTGGCAGCCCTGTGTGTGTACCCATTGGTGACCTGCGGCGAGTATGTACTTCAGT
GCACCTTACTGCTTACTGTGCTTTAGTACTAATTGCTTTCTGGTTTGAAGATGCAGTGGTTTCTCCCTCTCC
TGAATCCTTTTCTACATGATGCCCTGTGACCATGCAGCCGCACCAGAGAGAGATTCTTCCCCAATTGGCTCTAG
TCACTGGCATCTCACTTTATGATAGGGAAGGCTACTACCTAGGGCACTTTAAGTCAGTGACAGCCCTTATTGTC
ACTTCACCTTTTGACCATAACTGTTTCCCCAGAGCAGGAGCTTGTGGAATAACCTTGGCTGATGTTGCAGCCTGC
AGCAAGTGCTTCCGTCTCCGAATCCTTGGGGAGCATTGTCCACGCTTTTCTCATATCATGGTAGTCACTAAC
ATATATAAGGTATGTGCTATTGGCCCAGCTTTTAGAAAATGCAGTCATTTTCTAAATAAAAAGGAAGTACTGCA
CCCAGCAGTGTCACTCTGTAGTTACTGTGGTCACTTGTACCATATAGAGGTGTAACACTTGTCAAGAAGCGTTAT
GTGCAGTACTTAATGTTTGTAAAGACTTACAAAAAAGATTTAAAGTGGCAGCTTCACTCGACATTTGGTGAGAGA
AGTACAAAGGTTGCAGTGCTGAGCTGTGGGCGGTTTCTGGGGATGTCCCAGGGTGGAATCCACATGCTGGTGCA
TATACGCCCTTGAGCTACTTCAAATGTGGTTTATACCTCGCAGATACAAGAATCTTTATGAATATACAATTCTTT
TTCTTCTACAGCTTAGCTCCGTCTTTTCAACCACGAACATTTAAAACCCGACCTACTAGCACTGTTCTGTCTC
AAGTACTCAAATATTTCTGATACTGCTGAGTCAGACTGTGAGAAAAGCTAGCACTAATCGTGTTTGGAGCTCT
ATCCATATTTTACTGATCTCTTAAAGTATTTGTTCTGCCACTGTGTACTGTGGAGTTGACTCGGTGTTCTGTCC
CAGTGGGTGCTCCTCTTGACTTCCCCACTGCTCTGTGGTGAGAAATTTGCCTTGTTCATAATTACTGTAC
CCTCGCATGACTGTTACAGCTTTCTGTGCAGAGATGACTGTCCAAGTGCCACATGCCTACGATTGAAATGAAAAC
TCTATTGTTACCTCTGAGTTGTGTTCCACGGAAAATGCTATCCAGCAGATCATTTAGGAAAAATAATTCTATTTT
TAGCTTTTCAATTTCTCAGCTGTCTTTTTTCTGTTTGAATTTTGACAGCAATGGAGAATGGGTATATATAAGAC
TGCCTGCTAATATGAACAGAAATGCATTTGTAATTCATGAAAAATAATGTACATCTTCTATCTTCAAAAAA
AAAAA

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FIGURE 2244

MAAAAAAGAGPEMVRGQVFDVGPRYTNSYIGEGAYGMVCSAYDNVNKVRVAIKKISPFHQTYCQRTLREIKIL
LRFRHENIIGINDIIRAPTIEQMKDVYIVQDLMETDLYKLLKTQHLSNDHICYFLYQILRGLKYIHSANVLHRDL
KPSNLLLNTTCDLKICDFGLARVADPDHDHTGFLT EYVATR WYRAPEIMLNSKGYTKSIDIW SVGCILAEMLSNR
PIFPGKHYLDQLNHILGILGSPSQEDLNCIINLKARNYLLSLPHKNKVPWNRLFPNADSKALD LLDKMLTFNPHK
RIEVEQALAHPLYEQYYDP SDEPIAEAPFKFDMELDDL PKEKLKELIFEETARFQPGYRS

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FIGURE 2245A

GCGCACTGGAGCCCTGGCCAGCGCGCAGCCTTCCCGGCGCCGGCGGGCTGGGTCTTGGGAATTCTGGTTTGCTTT
GGCTCACTCGCTTTTTACAAACCACTGGATCTTACATGCCTCTGTACCGCCCACTTCCACTCCATGTCCCCATGC
TCCTGCGCCAGCAACAGGACATGTTCTCTGGATGTCAGCTGAGTCATTAAAGTAACTCTGCATGTCAGTAGACAG
ACCTTGGTAGAACCAAGGCTCCCAGAGACACCCATCTCTCCTCATTTTTTTGGTGTGTGTGTCTTCACCGAAC
ATTCAAAACTGTTTCTCCAAAGCGTTTTGCAAAAACCTCAGACTGTTTTCCAAAGCAGAAGCACTGGAGTCCCCAG
CAGAAGCGATGGGCGAGTGTGCGAACCAACCGCTACAGCATCGTCTCTTCAGAAGAAGACGGTATGAAGTTGGCCA
CCATGGCAGTTGCAAATGGCTTTGGGAACGGGAAGAGTAAAGTCCACACCCGACAACAGTGCAGGAGCCGCTTTG
TGAAGAAAGATGGCCACTGTAATGTTTCAGTTTCATCAATGTGGGTGAGAAGGGGCAACGGTACCTCGCAGACATCT
TCACCACGTGTGTGGACATTGCTGGCGGTGGATGCTGGTTATCTTCTGCCTGGCTTTCGTCTGTATGGCTGT
TTTTTGGCTGTGTGTGTGTGTGATAGCTCTGCTCCATGGGGACCTGGATGCATCCAAAGAGGGCAAAGCTTGTG
TGTCGAGGTCAACAGCTTCACGGCTGCCTTCTCTCTCATTGAGACCCAGACAACCATAGGCTATGGTTTCA
GATGTGTACGGATGAATGCCAATTGCTGTTTTTCATGGTGGTGTTCAGTCAATCGTGGGCTGCATCATCGATG
CTTTCATCATTGGCGCAGTCATGGCCAAGATGGCAAAGCCAAAGAGAAACGAGACTCTTGTCTTCAGTCACA
ATGCCGTGATTGCCATGAGAGACGGCAAGCTGTGTTTGTATGTGGCGAGTGGGCAATCTCGGAAAAGCCACTTGG
TGGAAGCTCATGTTGAGCACAGCTCCTCAAATCCAGAATTACTTCTGAAGGGGAGTATATCCCTCTGGATCAAA
TAGACATCAATGTTGGGTTTGACAGTGAATCGATCGTATATTTCTGGTGTCCCCAATCACTATAGTCCATGAAA
TAGATGAAGACAGTCTTTATATGATTTGAGTAAACAGGACATTGACAACGCAGACTTTGAAATCGTGGTCATAC
TGGAAGGCATGTTGGAAGCCACTGCCATGACGACACAGTGCCGTAGCTCTTATCTAGCAATGAAATCCTGTGGG
GCCACCGCTATGAGCCTGTGCTCTTTGAAGAGAAGCACTACTACAAAGTGGACTATTCCAGGTTCCACAAAACCTT
ACGAAGTCCCCAACACTCCCTTTGTAGTGCCAGAGACTTAGCAGAAAAGAAATATATCCTCTCAAATGCAAATT
CATTTTTGCTATGAAATGAAGTTGCCCTCACAAGCAAAGAGGAAGACGACAGTGAATGGAGTTCCAGAAAAGCA
CTAGTACGGACACGCCCCCTGACATAGACCTTCACAACCAGGCAAGTGTACCTCTAGAGCCAGGCCCTTACGGC
GAGAGTCGGAGATATGACTGACTGATTCTTCTCTGGAATAGTTACTTTACAACACGGTCTGTTGGTCAGAGGCC
CAAAACAGTTATACAGATGACGGTACTGGTCAAGATGGGTCAAGCAAGCGGCCACAAGGGACTGAGGCAAGCACA
ATGGTTTTCAAAGAAAGACTGTAAGCTCCATGATTAGCATAAAGCACTAACCATGTCTCCATGTGACCCGATGGCA
CATAGATGTTGTAGAATAAGTTATGGGTTTTATGTTTTGTTTTGTTTTTCCAAAACCTGAACTTGCAGGCAA
GCCTTGGTTGGGTATTTGATTTATCCAGAATGCTTCTCTTAGGGAACAAGGATGTTTTTAATGGCATAACAAG
GCAAGACTCTGCCTTAATTTTTGAAAAGCTGCTAACTACATGAACACAATGTGTATTTTTGTGTGAGTGTAGTT
TTCCTTTTGTGTAATTTTAAAGTCAGTGTGAATTTTATTGAAAGCTCATGATGCGCTTCAAAGTGGCAAGTATT
TGGCTATTAAGTGCAAAACAAGAGCCTGATTTTTTGGAGCCAGTAATTCGTTTGCTAGAAATGATTTTTTTCT
CTCTCTCTTTGTTACATAAGGGCATTATGTAACACTAGCCGAATGGTAGCCTCTGGGTTGTGTGTTTTTCTTTT
CCTCCATGATGTTAATGGGTTATCTCAAATTTAAGTTAACTACCTAAAATAAATACCAAGATAATGCATATT
TTTGACAGTGGAGCTTACACTTAAAGAAAAACAAGCCCCATGGGCTGCCTTGAAATCAAGAGACAATAACTTT
GAACCTCAGCAAGACCTTGAACCGCCGGTTTCAATTTGCACCTTATTCAGAAAATAGAGCATCATACTACCGAGT
CTAGTCAGTGTAGTGCTTTTAAAAATTTTGTCTTTTCATGTAACCTTTTTTATTTTAAAGAGGAAGAAGAAGAGG
GGCACACACACAATAACCGACGTCTATCCTTTCTGCTAGGCAGTGTGCGCAGGCTCATGTGTAGTGTGCGAG
ATGGTGATGTACTCTTATATTTTTCTGGGCTTTCTTTTGCACATTCCAAAATTCATTTTATAAGACAAGATCT
TCATAGGACCTCCTTGGCATCCTGGCATTCTCAAACTGAGCCATCCAGCATGAAAGATAAATGGGTTTAAACCC
TTGCTGCTGAATTTATTGCTGGACTGTGAGGACATCACCAGCCCACCTTACCTTAGGGAAGATGCCACACCTG
GCCTCCACACTTGCTCTTCTGATCAGTCTGTCTGGATTGAGTCTTACAGTGTGAGATAGGGCGGCAATGCCAAA
GCAGGGAAACAGGGAGGTGTGGACAAGCCAGTTTGTATGCAGCACTTCAGATCAAGTGCTTAGGAAGGAGAGGAAA
CTTGCTTTTTTATGGCAGAGGATAGTAATGAAAATGTCTCAGTATTTTAGGGTCAATGAGAGCCATAAAAAATAT
AACATAATCACAAGTAAAGGAGATAATGGTCTAAAACAGCTATTTCCCTTTTCTGTGTGCATACTTATGACTGAA
TGTGAGCTAAGCATTTTCTCTGTGGAGCCCTAGAGCAGTTACTAAGGAAGGACACATTGTTTTCCAGAAGCCT
CCCCGCTGCTGGCTGACTGCCTTGCTAGAAACATAATTTTTTTTTTCTCACTGAAGCTCAATAATGGAAGCTTTT
TTTTTTTTTTTTTAATTTAAAGTTCCCTATTTGTGAATTTCTGGGATTACTGACTTTTCTTTTTTAAATGGAGTCTC
AAAATCAACTCTCTTATGGTATTATATCTCTGTATGCCATTAAGGAAGCAGCTTGTCTAGAATCATGTATTTGT
AAACTGATGTTTGTATGGTCTCTGGTTCTTGAACAGCCATATCTGAATGCCGTGCCTGCAAACTATGACAATT

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FIGURE 2245B

TTTGCTGTTTTTCAGCCTTCAGATTTGATGGCTTGGGAACTGAGGTGTTATTTTCAATGAAACAAAGAAAGAGAT
GTTAAGCAAGTGGTTGTTTTAGATCCAAATGTAAAGGCAGGTTTGGGAAGGTGTTTAAAGAGTTGGAGGAATTGG
GGATTGAGTTGTAAAGAAAACCTTACAGAAGAGGCAACAATTTGGTTCTTGACAGTGAGAGGATATTGAGGGCTTC
AGCTGCTGCTATTATGATGTTTTGCAAAGGAAAATAATCAAACCAAAGAGTATTCAGTGATATGTAAATTAAATG
AAGATACAGTGGAGAATGGGGGTGACCACAAAAGAGGCTCCCCCTAAACACACAGTGTGCCACTTAAAAAGACT
TGAGAAATTTGAAAGGGGGTGGGTATGGGGGGGCAAGAAAGAGGGAGGGAAATCTTCAACTTATTTCTGAAAA
AGAGAAAAAATATAAAATTTCTGGTGCACAGGTTTGTTTTTCAAGAAAATTTGCAGAAGCTATGTTTTTAA
GTGTACATTTTATAAAGTTTATCAGATATTTTCATATTTAAAGCCAAATGTAAATAGAGGTCTGTAAAGAAAAAT
AATTGCCATAGAAAGTATAATTTAGTGCAGTAATTTCTGAGAGCTAGTACCTATATGCTACCGGTTAGCATGGT
TTTAGCAAATATATACCAGCCTTATAAGGTTTCGTATTGCTATGTTCTTCTGTTATTTATTTTTCAGCATGGACTGTT
CATTTGAAACCTTTTTCTAGTTATTAGCGTTTTAACAGTTACAAGCTTTAAATGGCAATTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTGTCAAGAGCCAAGACACAGGTAATGCACGACATTGATTGCTGCATTTTACCTTCAAAA
TATTTGTCCTTATTGACTGGGTCTCCTTAATTAATGTACACATGTCATTAGAATGCAGACGGAGGGGACTCACCA
TGAATATCTGGGGTTGATTCCAGATGTGTGTTGCTTCTCTATTGCAAGCAGATTCCCTGTTGGATTACTTCGG
ATTTATTCCTTTTAAAGAATTTTGGCCATATCTGGAAGGGCACTATATTTTGGGAGGAGCCATAGATTCCCTG
GTTATCCTATTTTTAAACAAAATGTAGACAAAGTGAACCTCTATTTTGATTATTGAGAAAGGAGTAGTTTTCTATC
CCTCTAAGAGTATACTTGAATCAGACATTTTAAGGATGTCACTATGGCACTGTTGTCATTTCCAAATTCCTAGAA
AAGTTTGTTTTACTTTGTTTTTATTCTGTTAATGCATTCTTCTTCTTTACTTCCTTTCTTACCAGTACACTC
CTATCTCAACTCTGTTTATTGATGAGTTCGTCCCGTAAATCATATTTCCCTTACAATTAATAAATGTCACCTTC
ATATTTTATAATAAACCCTCAGTAAAAGCAAAGCTTGTCTGAGAAGTAGAGTGAGTTCTTTTTCACTCTGTG
TCTAATAATGTTAAGGTGGGAAAAAAAAAAGTGTGGCATAGCTACCTGCCCATCCCCAACCCCTCAGCAAAGTAGA
ATCTCTTTTCTGGTAATTTTGGGTTTCCGCTCTGGGCTCTGGCAAGTTGAACAATCCTAGCCATTGACAATCGTG
ATAGTTATTATTTTCCCATTTGCTGTCTTTTTGTATCTAAAGTCTTCTTATTGTACTGCACAAACCATGGATTGT
ACATATTTTATATATTATGTCTTATTTTATTATTCTAAATAAAAAAATTAAAAATTGAAAAAAAAAAAAA

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FIGURE 2246

MGSVRTNRYISIVSSEEDGMKLATMAVANGFGNGKSKVHTRQQCRSREFVKKDGHCVQFINVGEKGQRYLADIFTT
CVDIRWRWMLVIFCLAFVLSWLFVFCVFWLIALHGDLDASKEGKACVSEVNSFTAFLFSIETQTTIGYGFRVC
TDECP IAVFMVVFQSI VGCII DAFIIGAVMAKMAKPKKRNETLVFSHNAVIA MRDGLCLMWRVGNLRKSHLVEA
HVRAQLLKS RITSEGEYIPLDQIDINVGFDSGIDRIFLVSPITIVHEIDEDSPLYDLSKQDIDNADFEIVVILEG
MVEATAMTTQCRSSYLANEILWGHRYEPVLFEEKHYKVDYSRFHKTYEVPNTPLCSARDLA EKKYILSNANSFC
YENEVALTSKEEDDSENGVPESTSTDTPPDIDLHNQASVPLEPRPLRRESEI

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FIGURE 2247

AGATTGTTCTGGCAAGGAACAGCCAGTGGGAGGTTCCAGCTGAGCGCTCCCCAGAGGTGAGCTGATCCCCAGCCA
CAGCACACAGGACCAGGCTGCGAGAAACAGCATCATCAGCATCATGCTATTACAATCCCAAACCATGGGGGTTTCT
CACAGCTTTACACCAAAGGGCATCACTATCCCTCAAAGAGAGAAACCTGGACACATGTACCAAAACGAAGATTAC
CTGCAGAACGGGCTGCCAACAGAAACCACCGTTCTTGGGACTGTCCAGATCCTGTGTGCTGTGATTTCAGT
CTGGGGGCCATCTTGGTTTTTGTCTCCCTACCCCTCCCACTTCAATCCAGCAATTTCCACCACTTTGATGTCTGGG
TACCCATTTTTAGGAGCTCTGTGTTTTGGCATTACTGGATCCCTCTCAATTATCTCTGGAACAACTCAACTAAG
CCCTTTGACCTGAGCAGCTTGACCTCAAATGCAGTGAGTTCTGTACTGCAGGAGCAGGCCTCTTCTCTTGTCT
GACAGCATGGTAGCCCTGAGGACTGCCTCTCAACATTGTGGCTCAGAAATGGATTATCTATCCTCATTGCCTTAT
TCGGAGTACTATTATCCAATATATGAAATCAAAGATTGTCTCCTGACCAGTGTCAAGTTAACAGGTGTCTTAGTG
GTGATGCTCATCTTCACTGTGCTGGAGCTCTTATTAGCTGCATACAGTTCTGTCTTTTGGTGGAACAGCTCTAC
TCCAACAACCTGGGAGTTCATTTTCTCGACCCAGTCACAAGATCATATCCAACAGGTCAAAAAGAGTTCTTCA
CGGTCTTGGATATAAGTAACTCTTGGCCTCAGAGGAAGGAAAAGCAACTCAACACTCATGGTCAAGTGTGATTAG
ACTTTCCTGAAATCTCTGCCATTTTAGATACTGTGAAACAACTAAAAAAAAAAAAAGCTTTGTTTTGTATTGT
TTACTATGAGTCGTTATTTAATTTCTTGAATAAATTTCTCAAAGCCCAAGTCAATAAATGTTATCAGCCAG
TCTTCCAAAATGGTCATAAACTTTATAAACTGCTTTGGGTAACTGAGCAGAAGGTGATACACAGAAGGGAAAAT
GTGCACTCATGCTAGTGTGAATTTGGTAAGTCGCGTACTCTGCAGGCTGTTTCTGTATTATTTTCACACTCATA
TTGCTTAAATATTACATATTAGGGATTG

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FIGURE 2248

MLLSQTMGVSHSFTPKGITIPQREKPGHMYQNEDYLQNGLP TETTVLGTVQILCCLLISSLGAILVFAPYPSHF
NPAISTTLMSGYPFLGALCFGITGSLSIISGKQSTKPFDLSSLTSNAVSSVTAGAGLFLADSMVALRTASQHCG
SEMDYLSSLPYSEYYYPIYEIKDCLLTSVSLTGVLVVMLIFTVLELLLAAYSSVFWWKQLYSNNPGSSFSSSTQSQ
DHIQQVKKSSSRSWI

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FIGURE 2249A

TTCAAGTATGGCAGACAAAGGATGTTCTGCGTGGGGAAATGTGGTGACACCCATTTCACAAGGACAGCTCACATA
GATTGAGTGTCTCAGGAAGGACCAGCACCATAACCCAGTGCCTGATGTGTATCATCTCAATTAGTCCTTGCCCTCAGA
TGCAAAAGGAAACCATCGCCATCATCATCACCACCATCATCATCTTCTCCTGTGCAGATGGAAAGGCTGAGGCA
TAGAGAGGTGACGGAGTCTGCCCAGGACTGCAAGCCTGCTGGTGGCAGAGCCAGGTTCGAATGGAATGAAGGCTG
TCATCCTCAGATGGCAGGGTAGGCAGGTGGCTAGAGCTCACTTGGGAGAAGGGGAAAGGACACTGACTTTGGCTA
GGGATGGAGCAGAGCTTGGGCTGGCTTTCCATGCACGGGCAGGGGGCGTGGCTCATGGCTACGCTCCAGCCCCGG
GTGTGGACATTGAATCTTCCAGGTCTACCCTAGGCTATGGGTCTGGACAGCACTGTGATGGAAAGAAGACACTCT
ATGTCTGCATTCTGTGACCAATGATGTGACTGTGGGAATGGCGCTGGCATCTGGCTGCCACTCTGGGACGGGTG
GCCAGCTGCCATCAGGCCCCACCCAGGATGGGACCACCATGCGACTTCTTCCCTCGCTCCTCTGGTCATGTCCA
GAGCCCCAGGAGGACCAGCAAAGCCTCTCGAGCCGATGGCAGCTCACGTTCTGCCTGTGAGCTACTCCTCTCCT
GGGCAATATTGGCTGCTTGCTGTGGCTCTCCCCGGGGTATGTGACTGCCTCTGTGCTGGGCACCTGGCCTGGGCT
TTCTTCTGGGCTGGGCAGCTGGGCTCAGCTTGGACCCAGGCAGCAGCCACAGAGGGGCCCCATGGAGGTGACAG
AGTTGCTTCTATGATGGTGAACGGGCAGCTGTGACACGGAGGAGGCGACCACTCCTCAGTTTCCAAGTGCTGCGG
TCAGGGCCGGGGCCAGCAAAGTCCCTCCCATATTCAAAGAGCGGGTTGGGTTTGTCCAGGAGGACATAGTCAG
GAGCCCATGCTGGGACATGCCTCCTCAAAGTTEAGCCTGGATCCCCAGCCTCTGCCAACGGCCCCGCTCCTTAG
CTAACCCAGCTTGCTCCTGGGTTCCACGGCGGAGTCAGATGTTTCTGGGCAGTTTCACCTTTGTGCCTTAAATGC
ATGTTGAGGACTTTAAGGAATTGTGGAGAAATAGGGCTGTGGCAAAGGCAAGTGACAACCTGGGAACAATGATCCC
GCAGAGGCTGCTGAGGCTGGGCCCCAGGGGCGTGGGTTTCATCCTTCTGCCTGGGCTTTGGTGGGAGGGGCGAGAC
TCTGTGGTCTGAGACACAAAAAACCACAAACATATGTGTGTACAGACACACAGCAGAGCCACACACACACTTGT
GCCCCATGCACACACTCACAGGAGGCCCGTGGACTCCGCACAGGGAAGAACTCCTCCGGTCGACAGTGGACGGCG
CTGCAGCAGGGACTCACCCCCAAGCCCTGCCTGCCTCCCATTTGCCACCTGGCCCTGGCTTGAAGGCTTATCTC
ATGCTGTGGCCGGGGACCTCTTGCTTCTTGCAACCCCTTGCTGGACTGGGGCCTGGGCTCTCCTGGGCTGTGCC
TAGGGTTTGTAACCCAGGGCCTGTGCCGGCGTGCACAGAGCATCTCTCCTGGGAGGCTCAGGGCTGCCTCCTCG
AGCTCTGTGGGCCTGCACTGGCCGGTGAGCTTGTGGTGTGGGTTTTTCAGGCTGTATCCTTCTACCTCCTGAGCCC
AGGGGTCCAGGCGCCCTGCAGCTGTCTCCTCGGCCATCCTGTGGGGCCCCGAGGCCTTGCCCTCACTTCAGTGC
CTGGGTGCTCAGGCTTTGCCCAGGTGCCAGGAGAAGGTGTGAGCATGAGCCTATTGGACACACCTGGCGACGTAT
ACCAGGTGTCCACCCCTGCCACCATGGGGCCTCCCGATACGGCAACCACACGACCTGTGGGGACCAATGAGG
AAAGAGAGAGGCAGGTCTGGGCCAGGCTCACAGGGACTCCGGCATAGCAGACCCTGCCCCAGCAGGCCCCCTTGT
CCTTCTGGGTCTTGGTCTTCATGAGGAAGTACCCATCCCTGGTGGGGCTCCACCCCGCTTCTCAGTGGGCT
CTATGCTTGCCCTCGTCGGAGTCACCCCTCAGGCAGTCTGGGATCCTCTCCTTTAGACCCACTGTGCCTTCCCG
CCTCCCGGCTTCTGCTGGGGGCAGAAGAAATGCCTCCCCAGGTCTGTCTCTGGAGGCTCTGAGGGAGATGGGCT
TGGGGGCTGTAGGAGGAGGCAGGGATTCCAGGGTGTGAGGAAGGCAGGGGTGCCAGGTCCCACCTAGTGAAGTAA
TAAACCGTGGGTGGTGATAGTGACCCAGTGCCCTCACTGCCAGCCCCGCTGTCTCAGCCAGCACTGCAGGGA
TCCCAGGCCCAGACTCTGGAGGCCTTCACTGATCCAGCCACCCAGAAAAGCTGCAGCCTGCAGGCACCAGCCG
GGCCATATGCCCAGTGCCAGCTAGGGGCCACCGCCATCCTGCACACGGGGCCGCTGGGCAGGTGCCCTCACAC
CCCCAGGATGTGAGTGCTCACCTCGAGCAAAGCGCCCCAGCTCGGCCTTGGGAGGTGGTCATGTCCAGGGGATG
ATGGAGAGCTGTCCAACCAAGAGAGCGGGAGGGAGGGAAGGAGGGAGGAGAGATAGAGAGAGAGAGAGAGAG
AGAGGAAGTGTGGGGCCTAAGGCTGCCTTAGTGAGGTGCGCGTGGCCTGCACCTACCAAGCCTAGCCACTCTC
GCGGCTCTGAGTGGCTCACAGGCTTGTGAGGGCCCCGTCGCTGCCTGCTGGGTCCCCACAGGGCTCCCTTAGG
AATGCGCCATGGCTGCTATGACAATTTGCACAGCCCAGTGGCTTAAACACCATTTATACCACAGGTCCAGATGAA
TCCTGCAGGGCCAAGGTCTGGGGGTGCTGGAGGCCATGCTCCCTCAGGCTTGCGGGGAGAACTTCCCTGCCTCC
TCCAGTCTCTCCATCCCTGAGCTCTCGGCTCCTCCTCGCTTTCAGGGCCAGGGCGTAGCGTCTGCTCTCTCGGC
CTCTGCCTCCGCTTCCACCTCACCTGGCTTCTGTCTATGTGAGTCTCCCTCTGCCAACCTCTAGAAAGGCACT
TGTGATTACATTAGGGCTCACCCCTTAAATCCAGGGGAGCCTCTCCACTTCATGATTTTCAGCTAACTTGCCTCT
GCACAGACCCCTTTCCCTATAAGGGCACACATTCAGTGGTCCCGGGCTAAGGACCTTGCTCCAAGTCCCTCCA
CCCATGATGCTGTGCCTTCCAGAAACCTGTCTCTGCAGCTCGGTCTTGACCCCAAGCCTGCTGGTGACCTGAAC
TTCACAGGGTTATCCCTTGGACTGTGTGCAGCAGATGCAATTTCTGGGCTGAATGTGCTCCTGGGGCA
GGACCTTGAGCCTGCAGCACACACTAGGCCACCTGCAGTCTCACAGGCCATGCCCTGGGTAGACAGGGAGGTGCT

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FIGURE 2249B

CAACCCAGCTCGGGTCCTCTAGTCTGCCTGGCTACCATGCTTCTCACTCTCCTGCATCTGCAGACCTGCGTTG
CCATGTGAGGCAGGGGTGGGGTGGGGCTGAGGGCGTGGCTTTGGTCCCTGGCTGTCCGGATGAAGTACCAGAGTG
ACGCCACAGCCCCATCCCGGTGACATGCTCACCCCCAACCCCGTGTCCGGGACCCCGGTCTTGTGTGGTCCCTGA
TGTGGAGTCTCTAGTCTTAAGATACATCCAGAAAGTCTGGCCATGAATTGGAGGTGCAGAGTCTGCAGAGCC
TCTGGGCTGGGCTGGTGCCCCAGGAGATGGAGGGCTGGTGGATGCCCTCCTCCCTCAGAGCTGGGGCAGCTGC
CTCCCAGGGGTGGGACTCTGGGCTCAGAGAGAGGCCCTTGAGCTGCAGCTCAGGGGGATGCGAGGCTTCGTGGAC
TGTGTCTTGGTCCATGTGGTGACGTGTCTCCACCTCCAAGGAGAGGCTCCTCAGTGTGCACCTCCCCACATCC
GTCTCTCTGCCGGCCCCGGCGTCTGAGCAGTCATTCCATGCCAGCACCTCTGCAGCCTGCTGGGCCCTCAGGTT
CTCTGTGAGGGACCTCCCCGGCCTTCGGCGGAGGTGGAGTAAGCTCCGTCAAGGCAGGTGGCTTCGTCCCTTCCT
GTGAGTGACACCAGTGATGAAATGGACCCCTCCACACAGGCATCCTCAGGGCACAGGGCCCTGGGGGCACCTTCC
TCCTTTCTGATTTTGTGAGAAAAAAGTGGCATTGCGCTCACACCAGGATGCTGGAGCAGAGCTGACATGCTCGG
GAAAGGGCAGAGGTCACTGGGGGTGGGAAGGTCACTCAGTCCAGACTCAGCACCTCGTGGGCTGGTAAACTGAGG
CTCAAAGTGCTGGTGCCAGGCCTGAGGCCTCGCGGTGACCCCTCTCTGTGTTCCAGCACCTGCCTGAGACCTG
CCCCAGGCACCCATAACCTGGAATTCCTGTTTCTTGTCCAGGGCCTGAGGAAATGGCTCCCCAGGTCTGTCTC
TGGATGCTCTGAGGCAGATGGGCTTGGGGCTCTAGGAGGAGGCAGGGACTCCAGGGTGTGAGGAAGGCAGGGGT
GCCGGGTCCACCCAGTGGAGTAACAACTGTGGGTGGCGTTTGGGCTCCCCGCCTTCCCACTGGGTGTGCTG
GTGCTGGCGCTGCTGGGTGAGGGCTGCCCGTGACCCAGACACCACTGTCCATCCTGTGAGGCTCCCGTCTGGGC
ATGTCTGGGTGGATTCTCTCTTCTGTTAAGTAGCTACATGAGGCAGGGGCTCCTGGATCCAAAGCAAATGACA
GGAATTCAGAGCCAGGTGCATCCACTCAGGGCAGCCAGTGTGGTGGAGCTGCCTTAGCACATGGAGGAGAGT
GAAAGTCAGCCTGCCCTCTCACGAGAAAAGAACCTGGGGATACCTCTCAGCCTCCAGCGTTGCAAGTGCAAGGC
CAGTGGAGTTAATCTGCAACGTGCACGAGGGCGTGTGTGAGTGGCTGTGTGCAGGAGTGTGAGTGAGCAAGAGCA
AGAGCGCATGGCTCCTGCTGTACCTCAAGGTGTGGGCTCCTGGTGGCTGCTCAGTGTTCACAGGGGTGAGAGGCC
TCATGTATCCTAGGCTGCCTGAGATTTCTGTGTGCTGATCGCATCCTCAGTTTCTTGTCCACCGCTTCACTGGCA
AGAGTCCCAGGCTCCAAGGACACCCCTCCCTGCACATGATTGGGTGTTAATGGTGGCCTGGGTTGTGTCTTCCCT
GGGGATGAGGGTTGGGTGTCCATGGTGGCTGGGCTGTGTCTCCCTAGGGATGAGGGTGGGGCTCCACGATG
CCCTGGGCTGTGTGCTTATGGAATGAGGGTTGGGTGTCCAAGATGCCCTGGGCTGTGTCTTCCCTGGGGAT
GAGGGTTGGATGTCCAAGATGCCCTGGGCTGTGTACTCCCTAGGAATGAGGGCTGGGTGTCCAAGATACCCTGG
GCTGTGTCTTCCCTGGGGATGAGGGTTGGGTGTCCATGGTGCCCTGGGCTGTGTCTTCCCTGGGGATGACGGT
TGGGTGTCCATGGTGCCCTGGGCTGTGTTTCTTGGGGATGAGGGTTGGGTGCTATGGCATCCTGGGCAGGTGCT
TCCTTTCTGCACAAGGGTTGGGTGACCATGATGTCTGGCAATGGCTTCCCTGGGTTGCCTCTTTTCTGCCATGT
GGGAAGAGCAGGGGAGGTTTAGTTGGTCTCAGCACATCATTCTCTCAGGATAAGTAGAAGAGTGTCTGAGCTGTG
AGGCCAGTGTCCAGCTTTGGAATTGTCTTCCCCACCTCACCTCCATCCATCAAAGCCCGACATGTCTGTGG
CAGCAGCGAGGTGGGTGTTGGCTGTTCTCTTGGGCTGGGGTTAGTCGTGGACGGGGAAAGGAGAGATGTGGTC
AAAGGGCATGAAGTTTCTGCTGATGGGAGGAGTCAGTTCTTTTGATCTGTTGCACAGCATGGTGACTATAGTTAA
CAATAATGACTATTTCAAATTTGCTAAAAGATGAGATTTTAAATGTTCTCACCACAAAATGATAAGTGTGTGAGG
TGATGGATATGCCACTTACCTTGTTTTAAATCATCCACAATATAGACAGGCATTGTCACTTGCATTGTACCCCA
GGAATCTTCACATTTGCTTTTTTGTCAATTAATAATAGAGACACAAAAGGAGAGAGGGGAGAGCAATAGACTCTT
CACGGAACCGTGGGCTTCTGCCTCCGGGTAAAATAAACTGCAAAAAGGATTCCCAGGAAACCGTTCCTCTTTCA
GCCCTTGGTTACAGGAAGCCGGATTTGGGAAATCTGCCTGGATGACATTCACATGAACGGGCACATACAGGAAA
CACGGTAATGTAATTAGAATAGTCAGAGAAAAGTAGCCAGAAATGACATTCACATGAACGGGCACATACAGGAGA
AAGACCGTAACGTAATTAGAATAGTCAGAGAAAAGTAGCCAGAAATGACATTCACATGAACGGGCACATACAGG
AGAAACCATGGTAACGTAATTAGAATAGTCAGAGAAAAGTAGCCAGAAATGACATTCACATGAACGGGCACATAC
AGGAAAACACGGTAATGTAATTAGAATAGTCAGAGAAAAGTAGCCAGAAATGACATTCACATGAACGGGCACATA
CAGGAGAAAACACGGTAACGTAATTAGAATAGTCAGAGAAAAGTAGCCAGAAATGACATTCACATGAACGGGCAC
ATACAGGAGAAAACACGGTAACGTAATTAGAATAGTCAGAGAAAAGTAGCCAGAAATGCAACGTGCCCTTG
TAACACCAAATTTGATCAGTTTTTAAAAAATGATCGTTATGTAGGTGATTGAGAAGTAAATGATTCTTTTTTA
AGGTAAAAATTTGACCCCTTATCATGCATACCCCTCTGTGCTCTTCAAATCAACATCATTATTAATATCTGTA
CATTTTGTCTATCTGAGCCAGCACAGGCTGAGGCTGTGAGTGGACACCTTTGGTTGTGGGTTTCTGTGAG

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FIGURE 2249C

TTTCTGGGGTGAAGCTGCGTGATTGAGAACGTAGCTCTTGGCTGCCATCTCGGGGATTATTAAGGACTGTGAAC
CTATCCACAAGCCATGGCAATATCTGTCCCACCGAATGCTCCCTCTAACACACTCTTACTCCCGTGATGTGTGTT
AAGGGCTCCGATGATGCTGAAAACAGCACAGGATGTGAAAAGGCAGGAACAGTTCTGAAGTCAAAGGCTGATGTC
CTGTTTCTCTTTCCCTCTGTGACCGACTCCCTTCCCAGTGGTAACAAGTACCCACAGCTTGGTTTGAATTTCTGC
ACGCTGTTGTCTGTGCACTCGCTCACACTTACGCACACAGCAGGCATGTGGGCGATGCTGGGTATTTGTGTATG
AGTGGGATGCACATACACACATCTACATCCATATCATGCCCATGCATCTGTAACCTGCTTTTCCCGTGAAGAAC
ACTTCTTAGAGTTTGTTCAATGCATGTGTCTGTGTGAATGATTGAAGGCATTTCTAACCCATTTTAAAGATGGCT
ACTTAGGACCATATGGATGTTGTACTGATGTCATTTGACCACGTCCATTGTTTCCATCTTTTGGGCTGTTCTTGT
GTATTTTACTTTCCATGTAACACTGTGACATTGAGAATTGGTACCTACAACAGTCTATTTGCTTTACATTAAATT
TGTAGGCTAATTTGTGTAAAAAAAAAAAAAAAAA

2477/2682
FIGURE 2250

MGLSHAVAGDLLLPATPCWTGAWASPGCLCLGFVTQGLCRRAQSISFWEAQGCLELCGPALAGELVVWVFRLYPS
TS

2478/2682
FIGURE 2251

CCAGAAACAGACCTGGGAGTGGAACAGCAGCAGTTAGGAGAGGACCCTGCTGGGGTCCAGGAGCCCGCTGCCTG
GCTGCCCAACCAGCTCCAACACTGCTGGAGGCCTCCATTCTCTGTTTCAGGGGAAGGCCCACTGGTTAGCTCAGAG
ATGGCTTCTGCGTGCTTTCTCCCTTCCGTCCTAGAGAACACATATTTCTGTTTCTCCCTTGCCTTCTCCCACT
TGGACCTGCTCAGAGCCCTGTGTACTCTGGTGTGTGGCCTCTCTCCCTCTCTCTTTCTCCTCTCTGGATTCTT
TCCTATCTTATCCACAATCTCTACCCTTTATCTTGCCGTTACTCTACCCCGAGACTGCCTTCTGCCCTGGGTCC
CACCAAAATAGATCCTGTCTTCCCTTAGTGAAAATGAGGCCACCTCTTGGGGAACAGAAGACGCCCCAGTGAAAA
CAGAGTGCAAACCTGGCCTGGCATGGGAGCCTCCTTCTGGCCAATCAGGCAGGCCAGAGAACAGCAGCGGAGGGC
CCTGTCTTTTCAGGCAGACCTCATGGCTGAGTGAGCCTCCCTTGGGCCAGCACCCCACTCAGCATGGTCCAAGC
CCATGGGGGGCGCTCCAGAGCACAGCCGTTGACCTTGTCTTTGGGGGCAGCCATGACCCAGCCTCCGCTGAAAA
AACGCCAGCCAAGAAGCATGTGCGACTGCAGGAGAGGCGGGGCTCCAATGTGGCTCTGATGCTGGACGTTTCGGTC
CCTGGGGGGCGTAGAACCCATCTGCTCTGTGAACACACCCCGGGAGGTACCCCTACACTTTCTGCGCACTGCTGG
ACACCCCTTACCCGCTGGGCCCTTACAGCGCCAGCCACCCAGCCCCAAGCAACTGGAAGAAGAATTCTGAAGAT
CCCTTCAAACCTTTGTGAGCCCCGAAGACCTGGACATCCCTGGCCACGCTCCAAGGACCGATACAAGACCATCTT
GCCAAATCCCCAGAGCCGTGTCTGTCTAGGCCGGGCACAGAGCCAGGAGGACGGAGATTACATCAATGCCAACTA
CATCCGAGGCTATGACGGGAAGGAGAAGGTCTACATTGCCACCCAGGGCCCCATGCCAACACTGTGTGGGACTT
CTGGGAGATGGTGTGGCAAGAGGAAGTGTCCCTCATTGTCTGCTCACTCAGCTCCGAGAGGGCAAGGAGAAATG
TGTCCACTACTGGCCACAGAAGAGGAAACCTATGGACCCTTCCAGATCCGCATCCAGGACATGAAAGAGTGCCC
AGAATACACTGTGCGGCAGCTCACCATCCAGTACCAGGAAGAGCGCCGGTCAGTAAAGCACATCCTCTTTTCGGC
CTGGCCAGACCATCAGACACCAGAATCAGCTGGGCCCTGCTGCGCCTAGTGGCAGAGGTGGAGGAGAGCCCGGA
GACAGCCGCCACCCCGGGCTATCGTAGTCCACTGCAGTGCAGGGATTGGCCGGACGGGCTGCTTATCGCCAC
GCGAATTGGCTGTCAACAGCTGAAAGCCCCGAGGAGAAGTGACATTCTGGGTATTGTGTGCCAACTGCGGCTAGA
CAGAGGGGGGATGATCCAGACGGCAGAGCAGTACCAGTTCTGACCACACTTTGGCCCTGTATGCAGGCCAGCT
GCCTGAGGAACCCAGCCCCTGACCCCTGCCACCTCCGGTGGGCCAGGTGCCTACCTCCCTCAAGCCTGGGAAGG
TGGGTCTGGGGAAGTGGGCCGAGTGATCTGGGGGTACCCCTTGGGTGGTGTGGGGAAGGAGTGCTCCTTAGT
GGTGCTTGCACTCAGGAAGCAGCAGCAGTAAGGACAAGGGGCCGATTCCAGGTCTTCAACACTGGCCACTCC
TCTGCTTCTCTGTTGGCCCCAGATGGACAGTAAGGGGAACCTCCAATGTCTCTCTGAACCTAAAGACAGGAGCT
GGCATTATGACAGACAAAGAAAGAGCCAGGTGTCTGGTGTCTCTGAGACACTCTTTGTGAGCTTCAGTTT
CCTGTTCTATAACATGAACATAAGTGCTTAGCTGCCATGAGGGAAAAGTAATGAGAGAAGTTCTAGAAGCCACT
CCAGCCACTCCTTCTGGGGCTGACAAAAGGGTGATTCCAAGATCATCCTTACCCGAGGTCTGCCCAAGCACA
GGCCAGATGCAAGAATGGGGAAGTCTGGTCTGATCTCCAAGTCTCAACATCCTATCAGTGAATCTGCTCCCT
GACCACACATCGGAAGGGCTGGATGACCCCAATCAAAGAAAGAACAGGACTCTGGTTACCCTTGCTTCCACCC
ATGTGTATAGAGTAGGCTACAGAGGTGACCAGGCCTGGCAGTTGAAATCTCTGGAAGAGGGAACATGTGGGGA
CTACTCAGAGGCAAGAGGAGCTGCTCCTGCCTCCATGGTTGCTGGCCACTCCCACCACTACTCTTAGGGAGGC
TAAGCAGTCTCTGTTTGTCTTCCATGGCTCAAATAATACCTGGGTATGCAGGACCCACTATACCTTGCATTTGC
TGAGTACACCTAGAGAGCTTGGCTGTTTCCAAAAACAATCAGGGTCATAACCATCCATGCAGACATGGAGGCTCG
GCTGAACCAGGACTCCTCACTGTCTACCTGAGAGAATGAGCACCCTCATCCATCTCAGCATCAACACAATTTCC
AGGGGACCTCAGGTCTACCTCAGGACTGAACGCCACACCTCAGGATTCTCTCCTTGAATCTGAGACTGGCTGC
CCATTCTGAGATGGGGATGAAGGTAAAGATGCCGCATCACCAGGCACGCCGCCCTGACAGCTGCCTTGATACCAG
CTCTCTGTGGAAACCCCGAGGAGTTGGATCTGGAGAACAGCTGGGCCTCTCACTCAGGACTTCTCTCCTGAAG
AACACGCAGTGCTAAACTGAGGATGATTTCCTAATGCTTCTGCTTGGCCTTATGGAGGAGCTGCTCCTTCTT
ACAGCCTTGGGGATGGACTTGCCACACCTCCAACCTCCCTGAGCCCTGTGAGAGGCACGACTGTCTATGCCAAT
GAGGCTCGGTGGGGGGCTCTCAAGTGCTGATCTGCCCCTGGGCTCAGAGCCAGCCAGGGGAAGCAACTGCAC
AGCCCCACAGGCCCTCCCTGGCACTGTCCCCCAACCCCATCTCAGAGCTCAGAGGGTACAAGCTCCAGAACAGT
AACCAAGTGGGAAAATAAAGACTTCTTGGATGACTGAC

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FIGURE 2252

MVQAHGGRSRAQPLTSLGAAMTQPPPEKTPAKKHVRLQEERRGSNVALMLDVRS LGAVEP ICSVNTPREVTLHFL
RTAGHPLTRWALQRQPPSPKQLEEEFLKIPSNFVSPEDLDIPGHASKDRYKTILPNPQSRVCLGRAQSQEDGDYI
NANYIRGYDGKEKVYIATQGPMFNTVSDFWEMVWQEEVSLIVMLTQLREGKEKCVHYWPTEETYGPFIQIRIQDM
KECPEYTVRQLTIQYQEERRSVKHILFSAWPDHQTPE SAGPLLRLVAEVEESPETA AHPGPIVVHCSAGIGRTGC
FIATRIGCQQLKARGEVDILGIVCQLRLDRGGMIQTAEQYQFLHHTLALYAGQLPEEPS

2480/2682
FIGURE 2253

GAGGGCGCGATCCTGGCGTCCCCGACGGCCTGGGGCCCCAATCCAGAGGCCTGGGTGGGAGGGGACCAAGGGTG
TAGTAAGGAAGCGCCTTTTGTGGAGGGCAACGGACCGGGGCGGGGAGTCGGGAGACCAGAGTGGGAGGAAGGCG
GGGAGTCCAGGTTCCGCCCCGGAGCCGACTTCCTCCTGGTCGGCGGCTGCAGCGGGGTGAGCGGCGGCAGCGGCC
GGGGATCCTGGAGCCATGGGGCGCGCGCGGACGCCATCCTGGATGCGCTGGAGAACCTGACCGCCGAGGAGCTC
AAGAAGTTCAAGCTGAAGCTGCTGTCGGTGCCGCTGCGCGAGGGGTACGGGCGCATCCCGCGGGGCGCGCTGCTG
TCCATGGACGCCTTGGACCTCACCACAAAGCTGGTCAGCTTCTACCTGGAGACCTACGGCGCCGAGCTCACCCT
AACGTGCTGCGCGACATGGGCCTGCAGGAGATGGCCGGGCGAGCTGCAGGCGGCCACGCACCAGGGCTCTGGAGCC
GCGCCAGCTGGGATCCAGGCCCCCTCCTCAGTCGGCAGCCAAGCCAGGCCTGCACCTTATAGACCAGCACCGGGCT
GCGCTTATCGCGAGGGTCACAAACGTTGAGTGGCTGCTGGATGCTCTGTACGGGAAGGTCTTGACGGATGAGCAG
TACCAGGCAGTGCGGGCCGAGCCACCAACCAAGCAAGATGCGGAAGCTCTTCAGTTTCACACCAGCCTGGAAC
TGGACCTGCAAGGACTTGCTCCTCCAGGCCCTAAGGGAGTCCCAGTCTACCTGGTGGAGGACCTGGAGCGGAGC
TGAGGCTCCTTCCCAGCAACACTCCGGTCAGCCCCTGGCAATCCCACCAAATCATCCTGAATCTGATCTTTTAT
ACACAATATACGAAAAGCCAGCTTGAAAAAAAAA

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FIGURE 2254

MGRARDAILDALENLTAEELKKFKLKLLSVPLREGYGRIPRGALLSMDALDLTDKLVSFYLETYGAELTANVLRD
MGLQEMAGQLQAATHQGSGAAPAGIQAPPQSAAKPGLHFIDQHRAALIARVTNVEWLLDALYGKVLTDQYQAVR
AEPTNPSKMRKLFSTPAWNWTCKDLLLQALRESQSYLVEDLERS

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FIGURE 2255

GGGGGAAGTTGCTGGCTGACTGGGCTTGCAGGAAACCGCCTCGGAGCTGCAGCGAAGGCCAAGGAATCACTGAA
GATCGGCGAGGGAGGACAGGGGGTTCATCATGGGTGGCTTTTTCTCAAGTATATTTTCCAGTCTGTTTGGAACTC
GGGAAATGAGAATTTTAATTTTGGGATTAGATGGAGCAGGAAAAACCACAATTTTGTACAGATTACAAGTGGGAG
AAGTTGTTACTACTATACCTACCATTGGATTTAATGTAGAGACGGTGACGTACAAAAACCTTAAATTTCCAAGTCT
GGGATTTAGGAGGACAGACAAGTATCAGGCCATACTGGAGATGTTACTATTCAAACACAGATGCAGTCATTTATG
TAGTAGACAGTTGTGACCGAGACCGAATTGGCATTTCCAAATCAGAGTTAGTTGCCATGTTGGAGGAAGAAGAGC
TGAGAAAAGCCATTTTAGTGGTGTTTCAAATAAACAGGACATGGAACAGGCCATGACTTCCTCAGAGATGGCAA
ATTCACCTGGGTTACCTGCCTTGAAGGACCGAAAATGGCAGATATTCAAACGTCAGCAACCAAAGGCACCGGCC
TTGATGAGGCAATGGAATGGTTAGTTGAAACATTA AAAAGCAGACAGTTAATTCAGTCCATTCTTCTCCCTGAAA
TGAAGACTACATCACCTCTCTCCCTTGGAAACAGTCAAGTGACTTCACACTACTAGATGTTAAACTATATGA
TTATTGGCATATACTGACTGACTGCAATATTTGTAGTAAATAGGGAAAATAAGTATTTAGTTGGAGGGATAATTT
GATCGAATCACCTGAATGTTCTATGTAATGTAAAATATTCTTTTCTTGCTTCTTGTGTTAAGGTATATATTCTA
TTTGTATGGAATTCTTATTCAAATACAGTTGTATTAAAGAGTATACTCCTATTGGATGAAAAAACCT

2483/2682
FIGURE 2256

MGGFFSSIFSSSLFGTREMRLILGLDGAGKTTILYRLQVGEVVTIPTIGFNVETVITYKNLKFQVWDLGGQTSIR
PYWRCYYSNTDAVIYVVDSCDRDRIGISKSELVAMLEEEELRKAILVVFANKQDMEQAMTSSEMANSGLPALKD
RKWQIFKTSATKGTGLDEAMEWLVELKSRQ

2484/2682
FIGURE 2257

GGGGACTCAAGGCTGGCCTGGCTCAAGTGAACAGCACGTCCAGGAGGCGACCTCGTCCGCGGGTTTGCAATTCTGG
GGTGGACGAGCTGGGGGTTTCGGTCCGAGCCCGGTGGGAGGCTCCCGGAGCGCAGCCTGGGCCAGCCACCCCGC
GCCGGCGGCCATGGCAGGCACCCTGGACCTGGACAAGGGCTGCACGGTGGAGGAGCTGCTCCGCGGGTGCATCGA
AGCCTTCGATGACTCCGGGAAGGTGCGGGACCCGAGCTGGTGCATGTTCTCATGATGCACCCCTGGTACAT
CCCCCTCTCTCAGCTGGCGGCCAAGCTGCTCCACATCTACCAACAATCCCGGAAGGACAATCCAATTCCCTGCA
GGTGAACACGTGCCACCTGGTCAGGTACTGGATCTCCGCCCTCCCAGCGGAGTTTGAATTGAACCCGGAGTTGGC
TGAGCAGATCAAGGAGCTGAAGGCTCTGCTAGACCAAGAAGGGAACCGACGGCACAGCAGCCTAATCGACATAGA
CAGCGTCCCTACCTACAAGTGGAAGCGGCAGGTGACTCAGCGGAACCCTGTGGGACAGAAAAAGCGCAAGATGTC
CCTGTTGTTTGACCACCTGGAGCCCATGGAGCTGGCGGAGCATCTCACCTACTTGGAGTATCGCTCCTTCTGCAA
GATCCTGTTTCAGGACTATCACAGTTTCGTGACTCATGGCTGCACTGTGGACAACCCCGTCTGGAGCGGTTTAT
CTCCCTCTTCAACAGCGTCTCACAGTGGGTGCAGCTCATGATCCTCAGCAAACCCACAGCCCCGAGCGGGCCCT
GGTCATCACACACTTTGTCCACGTGGCGGAGAAGCTGCTACAGCTGCAGAACTTCAACACGCTGATGGCAGTGGT
CGGGGGCCTGAGCCACAGTCCATCTCCCGCTCAAGGAGACCCACAGCCACGTTAGCCCTGAGACCATCAAGCT
CTGGGAGGGTCTCACGGAAGTAGTGACGGCGACAGGCAACTATGGCAACTACCGGCGTGGCTGGCAGCCTGTGT
GGGCTTCCGCTTCCCGATCCTGGGTGTGCACCTCAAGGACCTGGTGGCCCTGCAGCTGGCACTGCCTGACTGGCT
GGACCCAGCCCGGACCCGGCTCAACGGGGCCAAGATGAAGCAGCTCTTTAGCATCCTGGAGGAGCTGGCCATGGT
GACCAGCTGCGGCCACCAGTACAGGCCAACCCCGACCTGCTGAGCCTGCTCACGGTGTCTCTGGATCAGTATCA
GACGGAGGATGAGCTGTACCAGCTGTCCCTGCAGCGGGAGCCGCGCTCCAAGTCTTCGCCAACAGCCCCACGAG
TTGCACCCACCACCCCGCCCCCGGTATTGGAGGAGTGGACCTCGGCTGCCAAACCCAAGCTGGATCAGGCCCT
CGTGGTGGAGCACATCGAGAAGATGGTGGAGTCTGTGTTCCGGAACCTTGACGTCGATGGGGATGGCCACATCTC
ACAGGAAGAATTCCAGATCATCCGTGGGAACCTCCCTTACCTCAGCGCCTTTGGGGACCTCGACCAGAACCAGGA
TGGCTGCATCAGCAGGGAGGAGATGGTTTCTATTCTCTGCGCTCCAGCTCTGTGTGGGGGGGCGCATGGGCTT
CGTACACAACCTCCAGGAGAGCAACTCCTTGCGCCCCGTCGCCTGCCGCCACTGCAAAGCCCTGATCCTGGGCAT
CTACAAGCAGGGCCTCAAATGCCGAGCCTGTGGAGTGAAGTGCACAAAGCAGTGCAAGGATCGCCTGTCAAGTTGA
GTGTGCGGCGAGGGCCAGAGTGTGAGCCTGGAGGGGTCTGCACCCTCACCCCTACCCATGCACAGCCACCATCA
CCGCGCCTTCAGCTTCTCTCTGCCCCGCCCTGGCAGGCGAGGCTCCAGGCCTCCAGAGATCCGTGAGGAGGAGGT
ACAGACGGTGGAGGATGGGGTGTGTTGACATCCACTTGTTAATAGATGCTGTGGTTGGATCAAGGACTCATTCTTGC
CTTGGAGAAAATACTTCAACCAGAGCAGGGAGCCTGGGGGTGTGCGGGCAGGAGGCTGGGGATGGGGGTGGGATA
TGAGGGTGGCATGCAGCTGAGGGCAGGGCCAGGGCTGGTGTCCCTAAGGTTGTACAGACTCTTGTGAATATTTGT
ATTTTCCAGATGGAATAAAAAGGCCCGTGAATTAACCTTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2258

MAGTLDDKGCTVEELLRGCI EAFDDSGKV RDPQLVRMFLMMHPWYIPSSQLAAKLLHIYQQSRKDNSNSLQVKT
CHLVRYWISAFPAEFDLNP ELAEQIKELKALLDQEGNRRHSSLIDIDSVP TYKWK RQVTQRNPVGQKKRKM SLLF
DHLEPMELAEHLTYLEYRSFCKILFQDYHSFVTHGCTVDNPVLERFISLFNSVSQWVQLMILSKPTAPQRALVIT
HFVHVAEKL LQLQNFNTLMAVVGGLSHSSISRLKETHSHVSPETIKLWEGLTELVTATGN YGN YRRRLAACVGFR
FPILGVHLKDLVALQLALPDWLD PARTRLNGAKMKQLFSILEELAMVTS LRPPVQANPDLLSLLTVSLDQYQTED
ELYQLSLQREPRSKSSPTSPTSCTPPPRPPVLEEWTSAAKPKLDQALVVEHIEKMVESVFRNFDVDGDGHISQEE
FQIIRGNFPYLSAFGDLQNDGCISREEMVSYFLRSSSVLGGRMGFVHNFQESNSLRPVACRHCKALILGIYKQ
GLKCRACGVNCHKQCKDRLSVECRRAQSVSLEGSAPSPSPMHSHHRAFSFSLPRPGRGSRPPEIREEEVQTV
EDGVFDIHL

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FIGURE 2259

CGGCGCCGAGTAGCCGGGCCGGGCCGGAGCGCGGGCGCGCGGAGGCAGCTGCGCCCGGCTCCTCCCTCCCAGG
CCCCGCCCCCGCCGGGCCCGGCGATGGTGACACATGCGGCGCGGCCGCGCGGCAGGACCATGCTTGAGCGC
GCCAGCAAGTTCGTGCTGGTGGTGGCGGGCTCGGTGTGCTTCATGCTCATCTTGTACCAGTACGCGGGCCAGGA
CTGAGCCTGGGCGCGCCCGGCGCGCGCGCGCCGACGACCTGTACCTGTTCCCCACGCCCCACCCCACTAC
GAGAAGAAGTACTACTTCCCGGTCCGCGAGCTGGAGCGCTCGCTGCGCTTCGACATGAAGGGCGACGACGTGATC
GTCTTCCTGCACATCCAGAAGACGGGCGGCACCACCTTCGGCCGCCACCTCGTGACAGAACGTACGCCTCGAGGTG
CCGTGCGACTGCCGGCCCGGCCAGAAGAAGTGACCTGCTACCGGCCCAACCGCCGCGAGACTTGGCTCTTCTCC
CGCTTCTCCACCGGCTGGAGCTGCGGGCTGCACGCCGACTGGACCGAGCTCACCAACTGCGTGCCCGCGTGCTG
GACCGCCGCGACTCCGCCGCGCTGCGCACGCCCAGGAAGTTCTACTACATCACCTGCTACGAGACCCCGTGTC
CGCTACCTGAGCGAGTGGCGGCATGTGCAGAGGGGTGCCACGTGGAAGACGTCTTTGCATATGTGTGATGGGCGC
ACGCCCACGCCTGAGGAGCTGCCGCCCTGCTACGAGGGCACGGACTGGTGGGCTGCACGCTACAGGAGTTTCATG
GACTGCCCCGTACAACCTGGCCAACAACCGCCAGGTGCGCATGCTGGCCGACCTGAGCCTGGTGGGCTGCTACAAC
CTGTCTTCATCCCCGAGGGCAAGCGGGCCAGCTGCTGCTCGAGAGCGCCAAGAAGAACCTGCGGGGCTATGGCC
TTCTTCGGCCTGACCGAGTTCCAGCGCAAGACGCAGTACCTGTTTCGAGCGGACGTTCAACCTCAAGTTCATCCGG
CCCTTCATGCAGTACAATAGCACGCGGGCGGGCGGCTGGAGGTGGATGAAGACACCATCCGGCGCATCGAGGAG
CTCAACGACCTGGACATGCAGCTGTACGACTACGCCAAGGACCTCTTCCAGCAGCGCTACCAGTACAAGCGGCAG
CTGGAGCGCAGGGAGCAGCGCCTGAGGAGCCGCGAGGAGCGTCTGCTGCACCGGGCCAAGGAGGCACTGCCGCGG
GAGGATGCCGACGAGCCGGGCCGCGTCCCCACCGAGGACTACATGAGCCACATCATTGAGAAGTGGTAGTGGCGG
TGGTGGCCACGGGGAGGCCTCTTGGGGGGTGTGGGGGATAAAACAGGACAGACGACAGGTCACCCCAAGACTGTC
AAGGGATGAGCATCCCAAACCTGCTCCACAGAGGTAGCTGCGTCTTGAAAAAACAGAGCAGGGATGTAGTGGG
GCTGGGCAGGGATGGGGGCTTGAGAAATCAACAGGTGCAGCCAGTGGGTCAGAGGAAAGCGTGCTCGAAGGATG
CCATGGTCAGGGCAGGGCTCCAGAGCAGGTGTTGTGCCTGGAGCTGCTCTCCTGGCCTCCTTGGATTTATCGCA
AAACTGAAGGTTTTCGCAAGAGACGAGGACAGCGGAAAGTGGACCTGCCAGGCCGGGAGTGTGTCCCTCACCAA
CTATGCACACAGCACTCGCTCTTAACCTCTGTCCGGGCTACTAGGAGTGAGACCAGCTTCTGGCAACTGCCCC
AGCTCCAGGCCATCCCATAGCCCCTCCTCTTCTGGCTGCCCCCAATGCCCGAGGCCTGGGGAGCCCCCAGCTCA
CCCATCTGTAGCTCCCTCAAAGTCAGGGCCCCACCCATCTGAGGCAGAGAAGACTCGAGTCCAGCCCCCAGGAAG
CCTGCTCCCCCTCTGCCCCATGGTCTGCTTCATGCTTTGGGTCAGGAGGCCAAAGCTGATGTTTCAGGCCCCAC
CCACTCCCTACAGTCCTCAGACCCCG

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FIGURE 2260

MVERASKFVLVVAGSVCFMLILYQYAGPGLSLGAPGGRAPDDLYLFPTDPHYEKKYYFPVRELERSLRFDMKG
DDVIVFLHIQKTGGTTFGRHLVQNVRLVPCDCRPGQKKCTCYRPNRRETWLFSTRFSTGWSCGLHADWTELTNCV
PGVLDRRDSAALRTPRKFFYYITLLRDPVSRYLSEWRHVQRGATWKTSLHMC DGRTPTPEELPPCYEGTDWSGCTL
QEFMDCPYNLANNRQVRMLADLSLVGCYNLSFIPEGKRAQLLLESAKKNLRGMAFFGLTEFQRKTQYLFERTFNL
KFIRPFMQYNSTRAGGVEVDEDTIRRIEELNDLDMQLYDYAKDLFQQRYQYKRQLERREQRLRSREERLLHRAKE
ALPREDADEPGRVPTEDYMSHIEKW

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FIGURE 2261

CTGTGCGCTGCTGAGCTGAGCTGGGGCGCGGCCGCTGTCTGCACCGGCAGCACCATGTCGCTCATGGTCATCAG
CATGGCGTGTGTTGGGTTCTTCTTGCTGCAGGGGGCCTGGACACATGAGGGTGGTCAGGACAAGCCCTTGCTGTC
TGCCTGGCCCAGCGCTGTGGTGCCTCGAGGAGGACATGTGACTCTTCTGTGTCGCTCTCGTCTTGGGTTTACCAT
CTTCAGTCTGTACAAAGAAGATGGGGTGCTGTCCCTGAGCTCTACAACAAAATATTCTGGAAGAGCATCCTCAT
GGGCCCTGTGACCCCTGCACACGCAGGGACCTACAGATGTCGGGGTTCACACCCACGCTCCCCATTGAGTGGTC
AGCACCCAGCAACCCCTGGTGATCGTGGTCACAGGTCTATTTGGGAAACCTTCACTCTCAGCCCAGCCGGGCCC
CACGGTTCGCACAGGAGAGAACGTGACCTTGTCTGCAGCTCCAGGAGCTCATTTGACATGTACCATCTATCCAG
GGAGGGGAGGGCCCATGAACCTAGGCTCCCTGCAGTCCCGAGCGTCAATGGAACATTCCAGGCTGACTTTCTCT
GGGCCCTGCCACCCACGGAGGGACCTACACATGCTTCGGCTCTCTCCATGACTCACCCCTATGAGTGGTCAGACCC
GAGTGACCCACTGCTTGTTTCTGTACAGGAACTCTTCAAGTAGTTCATCTTCACCCACTGAACCAAGCTCCAA
AACTGGTATCCGCAGACACCTGCACATTCTGATTGGGACCTCAGTGGCTATCATCTCTTCATCATCTCTTCTT
CTTTCTCCTTCAATTGCTGCTGCTCCAACAAAAGAATGTGCTGTAATGGACCAAGAGCCTGCCGGGGACAGAAC
AGTGAACAGGGAGGACTCTGATGATCAAGACCCTCAGGAGGTGACATATGCACAGTTGGATCACTGCGTTTTAC
ACAGACAAAATCACTTCCCCTTCTCAGAGGCCCAAGACACCTCCAACAGATACCACCATGTACATGGAACCTCC
AAATGCTAAGCCAAGATCATTGTCTCCTGCCATAAGCACCACAGTCAGGCCCTGAGGGGATCTTCTAGGGAGAC
AACAGCCCTGTCTCAAACCGGGTTGCTAGCTCCCATGTACCAGCAGCTGGAATCTGAAGGCATCAGTCTTCATC
TTAGGGGATCGCTCTTCTCACACCACAAATCTGAACATGCCTCTCTCTTGCTTACAAATGTCTAAGGTCCCCAC
TGCCTGCTGGAGAGAAGACACACTCCTTTGCTTAGCCCACAATTCTCTATTTCACTTGACCCCTGCCACCTCTC
CAACTGAACCTGGCTTACTTCCCTAGTCTACTTGAGGCTGCAATCACACTGAGGAACTCACAATTCCAGACATACAA
GAGGCTCCCTCTTAACATGGCACTGAGACACGTGCTGTTCCACCTTCCCTCATGCTGTTTTACCTTTCTCAGAC
TATTTTCCAGCCTTCTGTGTCAGTCAGCAGTGAACTTATAAAATTTTTTGTGATTCAATGTAGCTGTCTCCTTTT
CAAATAAACATGTCTGCCCTC

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FIGURE 2262

MSLMVISMACVGFFLLQGAWTHEGGQDKPLLSAWPSAVVPRGGHVTLLCRSRLGFTTIFSLYKEDGVPVPELYNKI
FWKSILMGPVTPAHAGTYRCRGSHPRSPIEWSAPSNPLVIVVTGLFGKPSLSAQPGPTVRTGENVTLSCSSRSSF
DMYHLSREGRAHEPRLPAVPSVNGTFQADFPLGPATHGGTYTCFGLHDSPIEWSDFSDPLLVSVTGNSSSSSSS
PTEPSSKTGIRRHLLHILIGTSVAIILFIILFFLLHCCCSNKKNAAVMDQEPAGDRTVNREDSDDQDPQEVTYAQ
LDHCVFTQKITSPSQRPKTPPTDITMYMELPNAKPRSLSPAHKHHSQALRGSSRETTALSQNRVASSHVPAAGI

TTTTTTTGGCTTTTTGCGAGATTTGAAATTTAAATTAAGCTATTAACTCTCTTAATCATCACATCCTCCAACTCTGTGT
TTAACTCCCCCCCCTCCCTCTCCCTCTTTTTTTTAAAGGAATAAAGGGATTTCATTCTCATTTTTAACTGATGTTACAG
TGAAGATGGGTTCTTGAAGCTCTTGGAAAGCCTGGATGAGCCACCTAATCTCAAAGATAAAAAACCAAGACCAATGC
GTATTGGGGAAAAAGAATGCTTAGTACTGCAAGACTGTTGAATACCTGTTGAATATTCCTATTGAGGTTTTTTCCT
AAACATACTTCAGTAACATCTTACCGGACAATTGCACTGGAGAAATGTTGATCCCTGGCTGGAAATGTCATACCAT
TGACCCATTGGAAGAGTTAAAGCTGGATTGACTGCTCTATTCTACCAGGAATATTGTTAGGGTAGCCTTTTCCA
GTTTCTAAACAATTGTAATCATTTATTGACTCAGCAATTCCTCAGATAACAGGTCAAAAGATGTACAGATACATT
CTGAAGTTTTCTTGCTATTAAAGGCACAAGAGTTTTCTTGTATTTGACTGACAATGTAGCATGTTTCCATTTAG
TTTGTTAGTGAGGTGGTTTTTCCCTTTGAAAGCCATTGGGTATATTCACCATAACAATTAGTTTAAATATGATTACA
TAAGAAAACATGATAAAACCCAGCAATTTAGTAGTTGTGAAAATACGTTTTTTTAAATCATGTTTAAAGAAGAA
TGCAAGACTTGAAACCAATCCTGATGGGGGAATTCGTGTTAATCCTGTTTAACTGTTTAAATTTCTGTTTAACT
CTTAGTTTCTTAACCTGCATAGCTTATCCTGTATTGTAATTTTTTCTTTTTTAACTCCCAACAAGAAGCTTG
AAACTTTTTCTGTATTTTAAATTTGAAATTTGGTCACAGGGTATAGTCAGATTTTTATTAAGGTTTGGTTTGACA
ACCTTTAAAGAAAGGTTTACCTCGCTAATACTTCTTAATAACATGCATCAAATGATATTCCTATGGTGAAGTAT
ATCTCAAAGTTATGTATCTTTCATTTTTTGGCATTGGTGCTTATGGACTTAGTACCAGGCAACAAGATCTATT
ATCACCCTACTCTCTGTATTGCTATTTATTTCCCAAAAAAAAAAAGGGGCATATATCATAAGAATAATATTAGA
ATTATTTTGTTTTCTCCACAAGCCCATGGTAGAGATTTCTATGTTCCCATTCCTCCTTTCCTCAGAGTTATGTT
GACTGGGGGCGGTGGCTCATTGGGAAGCCAAGGCGGGTGAATCACTTGAGGTCAGGAGTTCAAGACCAGCTAGC
CAATCACGGCGAAACTCCGTCTCTACTAAAAATATAAAAAATTAGTCCCGTCTCTACTAAAAATATAAAAAATTAGT
CAGACGTGGTACCTGTTTGGTGGTGTGCATCTGCTAGTCCCAACTACTCGGGACGCTGAGGCAGGTGAATTGCAT
GATCCAGGAGGCAGAGGCTGCAATGAGCTGAGATCATGCCACTGCACTCCAGCCTGGGTGACAAGTGAGACTGTC
TCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAAGGGTCCTTACTTGCAATTAATGCATCCACATTATTCAT
GTACTCACCAGGATTTTTTGTATATAAACAAAAATACCCACTCTGTTTACTTATTAAGAGATTATCAGTCAATTTA
CAAAAAACAACAGGAAGATTTACAAAGAAAAAAAAAACAAGGAAGCAAGAACATCCAGAACTCACAGCAGAGAAT
ACTGTGCTTAAAAATGCTGCTGCAAGGAGTATTAATTAACCTTATACCTTACTGTGACACTTAACAGGCCAGGTGTC
GTGGCTCACGCCTGTATCCAGCACTTTGGGCTGAAGGCGGAGTACACTTGAACCCAGGACAGCCTGGGCAACAT
GGTGAGACCCCGTGTCTACAAAAATAAAAAAGCCGGGAGTGGTGGCAAGCTCCTATAGTTCCAGCTACTTGGGA
GACTGAGGTGGAGGGATCACTTCAGCCTGGGAGGTCAAGGTCACAGTGAGCTATAATCAAGCCACCGCACTCTGG
CCTGGGCAACAGAGACAGTCTCAAAAAGAAAAAAAAAAAAAGCACTTAACACACTTTATGAATACAATATGGCACA
TCTATCTGCCCATTAGAGTGAGACTCCTGAGTATTTTACTCATCTTTCCATCTCTCAATTCGAAAGAGTATGTGGC
ATATAATAACTGTCCGAATGTACGACTGACATCTTAAAGCGTGTGCGTGGGCAAACTTTTTCGTAAAGGGCCAGG
TAAGTAAACATTATAAGCTTTGTAAATCCACACAGTCTCTGTTCAAAACCATTTCTACTGTTGTAGCAGGAAGCAGC
CATGGATAATGTAAACAAGTCAGTACGATGTGTTTCAAAATAAACTTTTATAAAACAGGCAGTAGGCTGGGTT
TAGCCCATGGACCAATAATTTGCCAAGTATTTAACAAGAATCAACACTTTTTCTTTTATAATTTAATTGAAGTTGG
TACCTACAAAGATATGAGTCACTACTACATATGACTATCTGTAATGGATCAATTTTGGATATGACTTTGGGTGG
GGGTAAAAAAGAACCAGAGCATGTAAATATAGATGAATAATGAAAATAACAGGGCTGGGTGCAGTTGCCTGCAC
TTTAGGAGGCTGAGGCAGGAGCATCTCTGGAACCTGGGAGGCAGAGGTTGCAGTGAGCCAAGATTGCGCCATTGC
ACTCCAGCCAAGGGGACAAGAGCAAAAAACAAAAACAAAAACCTTTAAGGTACCAGCCTGGCTAAGCAGT
TAACATACCTCACTTTATCAG

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FIGURE 2264

MGEFCLILFNLFNFCILSFLTCIAYPVLYFFSFLNSQTRSLKLFYFKIEIWSQGIVRFLLRFGLTTFKERFTS
LILLNNMHQMIFPMVKYISKLCIFHFWHLVMDLVPRQQRSIITYSLVFAIISQKKKRGYHKNNIRIILFLPQA
HGRDFYVPILPFTQSYVDWGRWLIWEAKAGESLEVRSSRPASQSRNSVSTKNIKISPVSTKNIKISQTWYLFGG
VHLLVPTTRDAEAGELHDPGGRGCNELRSCHCTPAWVTSETVSKKKKKKKKKTRVLTCLINASTLFHVLTRFCY
KQKYPLWLLIKRLSVNLQKQEDLQRKKKQRKQEHPELTAQNTVLKMLLQGVLINLYPTVTLNRPGVVAHACIPA
LWAEGGVHLNPGQPGQHGETPCLQKIKKPGVVASSYSSSYLGD

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FIGURE 2265

GCGGCCGCGTCTGACTGTGACACTGCCAGCAGCGCGCAGAGGGAGGGATGGGGCGGGTATCGGCGTAGGGGCCCT
CGGAAAGAACGGATATTGCTGTGACACCGCGGGGACGCTCTGAAGGGACGAGTGTGGTGTGGCACCAGGTGCACG
CTGAAGGAGCCGGCGGAACCGGGTGGCCATCGGGGATGTGGGCATCGCTGGACGCTTTGTGGGAGATGCCGGCCAA
GAAGCGTATCTTCGGGGCCGTGCTGCTCTTTCTGGACAGTGTATCTTTGGGAGACCTTCTAGCACAGCGGCA
GAGAAGGATATATAAAACAACAACCTCATGTACCACCGGAGTTAGGACAGATCATGGATTCTGAAACATTTGAGAA
ATCTCGACTCTATCAACTGGATAAAAGCACTTTCAGCTTCTGGTCAGGACTCTATTAGAGACTGAAGGCCTCT
TATTCTTCTCTTTGGAGGAATACCTTATCTCTGGAGACTTTCTGGACGGTCTGTGGTTATGCTGGCTTTGGACC
AGAATATGAGATCACTCAGTCCCTGGTGTCTCTGCTGTTGGCTACACTTTTCAGTGCATTGACTGGTTTGGCATG
GAGTCTTTATAATACTTTTGTGATAGAAGAAAACATGGCTCAATCAACAGACTTTGGGGTCTTCATGAAAGA
TGCAATCAAGAAATTTGTTGTGACTCAGTGTATTTTGTGGCTGTGTCTTCACTTCTACTTTACATTATTAATA
TGGGGGTGACTATTTTTTTTATTTATGCCTGGCTGTTACATTAGTTGTGTCTCTGGTCTTGTGACAATCTATGC
TGATTATATTGCCCTTTTATTTGACAAATTCACCTCTGCCTGAGGGAAAGCTTAAAGAAGAAATTGAAGTAAT
GGCAAAGAGTATTGACTTTTCTTTGACGAAGGTGTATGTTGTGGAAGGATCTAAACGCTCTTCCACAGCAATGC
TTATTTTTATGGCTTCTTCAAGAACAAGCGAATAGTTTTGTTTGACACTCTACTAGAAGAGTACTCTGTACTAAA
CAAAGACATCCAGGAGGATTCTGGCATGGAACCCGCAATGAGGAAGAAGGGAACAGTGAAGAAATAAAGCTAA
AGTTAAAAATAAGAAACAAGGATGTAAAAATGAGGAGGTACTCGCTGTACTAGGCCATGAAGTGGGGCACTGGAA
GTTGGGACATACAGTCAAAAATATCATTATTAGCCAGATGAATCTTTCTGTGTTTTTTTTTATTTGCTGTATT
AATTGGTCGAAAGGAGCTTTTTGCTGCATTTGGTTTTTATGATAGCCAACCCACTCTTATTGGACTATTGATCAT
CTTCCAGTTTATTTTTTACCTTACAATGAGGTCTTTCTTTTTGCTTAACAGTCTTAAGCCGCAGATTTGAGTT
TCAAGCTGATGCATTTGCCAAGAACTTGGGAAGGCTAAAGACTTATATTCTGCTTAAATCAAACCTTAACAAAGA
TAAGTGGGATTCCCTGTTTCTGACTGGTTGTTCTCAATGTGGCATTATTCTCATCTCCACTGCTAGAGAGACT
TCAAGCTTTGAAACTATGAAGCAACACTGAGATGTCCAGGATCTGTGACTGAAGACATTTCTGATTATTTCTGT
CCTGGCAGCATGTTCCAGCTCTTGATGTTTTTAACTTTTTTTAGAAGAAAAATTAAGTACAGAAAAAGCCAGAT
TTAAATACATTTAATATGTCAATTTTAAAAATGATTTAATAATTCATTTCTTAAACACTGAATGAATTTTGAAG
CTTAATGTTTTTAAAGGCATAGTTTTATCTTTGACATCTAATTTACCATCAAGTTGTAAAAATTTTGGAAAAAT
ACAGAACTCGTTTTATTTGTATACTTATATGGAATCTGCATGTGAGGTGTTTGAGGGCATATGTTTGAAAGAGGG
AGCATCACACAGGAATCCTTTCTGTGAGGTGGAACAGTGGTCTCTGAATCATTGTGCTCACACCTAACTTGAAA
TCTGGTCTTACTTTTATGCTGTTATGATTTACCTGGTGAATCAGTGTTTTAAATAAGAAAGGTAATAGTTGGTA
AGGCCAATGTTATTTAAATGAAAGTAGTTAGAAAAATGCTCTCTCTATTCTACCAAATTTTAAATTTCTTCTTCC
CTTTCTTGCTACACAGTGATCAAGAGTTTCTCATAGTGCTTTGAAGTTAGAAATTATGTATAGGATATTTAAAT
CATTGAGTTTTGTGGGGTTTTTTTGTGTTGTTGTTCTTTGTTTTTGGAAAAATCCGTGCTTTATCTTTTTTT
CCCACGTGGTAGATATGATCCCATTGGAGGTAAATTGTAGCTTCTTCTCATTATGCAGTAAATAATACATCCTT
TCACTCAGCAGAGATGGCCATATTAACACGTTTTGCTATGTTAAAAGTGGCAGAACAGGAAAGACGAATAAAA
ATAACATTTTTTAAAGCGACATAAGGATGAAATACTGATGAATCTCTGTGACATTACAGGGAAAAAATATAGTTT
TCTATCTCTTTCAAGGGCAGAAGAGTTTTCAATTTTTATTTTGTAAATTTATCTGTAAGTCATAAATATTACTTAA
TCAGGCCTGATTCTACTTTTGAATTTACAGTCTTGAATGCAGATAATGTTTACTTTGAAAACAAATGTCATG
AATGATTTCCAGTTTTTAAAGCTATATGTTTCACTGCTTCATATCTCTGTCCACTTTCTGAATGAGAACTTATTT
TGTGCTTAGAGCTCTCACTCACTGATAATGCTTATTACCTTCTGGGCATTTATTCCAAAGTGGGATCAACTGTAC
GCCTTTGGTATCTGACCATAAAGTCTTTTGTCTCCGCTGACATTTGGGTGATGTCTTCACATGGAAATATAATAAA
AATAAAATCTAGTTTTAAAAA

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FIGURE 2266

MGMWASLDALWEMPAKKRIFGAVLLFSWTVYLWETFLAQRQRRIYKTTTHVPPELGQIMDSETFEKSRLYQLDKS
TFSFWSGLYSETEGLILLFGGIPYLWRLSGRFCGYAGFGPEYEITQSLVFLLLATLFSALTGLPWSLYNTFVIE
EKHGFNQQTGFFMKDAIKKFVVTQCILLPVSSLLLYIIKIGGDYFFIYAWLFTLVVSLVLVTIYADYIAPLFDK
FTPLPEGKLKEEIEVMAKSIDFPLTKVYVVEGSKRSSHSNAYFYGFFKNKRIVLFDTLLEEYSVLNKDIQEDSGM
EPRNEEEGNSEEIKAKVKNKKQGCKNEEVLAVLGHELGHWKLGHTVKNIIISQMNSFLCFFLFAVLIGRKELFAA
FGFYDSQPTLIGLLIIFQFIFSPYNEVLSFCLTVLSRRFEFQADAFAKKLGKAKDLYSALIKLNKDNLGFPVSDW
LFSMWHYSHPPLLERLQALKTMKQH

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FIGURE 2267A

AGCGCATGGAGCCAGAGGAGGAGGATGAACTAGGCTCAGGGCGGGATGTGGATTCCAACCTCCAACGCGGACAGTG
AGAAATGGGTGGCAGGAGATGGTTTGAAGAACAGGAATTTCTATCAAGGAGGCAAACCTTCACAGAGGGAAGTC
TGAAGCTAAAGATTAGACCACAAAGCGGGCTAAGAAACCCCAAAGAATTTGGAGAACTATATATGTCCACCTG
AGATCAAGATCACCATCAAGCAGTCTGGGGACCAGAAGGTGTCCCGTGTGGAAAAATAGCAAAGCCACGAAGG
AGGAAGAAAGAAGCCACTCCAAAAAGAAGCTCCTCAGAGCCAGTGACCTGCAGCCAGTGACCTCAAAGGATTTT
AGCCACAGGCTTACGAAAGGCCCCAGAAACATTCAACTCTCCATTATGACACGGGCCTCCACAGGACTTCACCG
GTGACACCTTAAACCAAAGCACCAGCAAAAAAGCAGCAGCCAGAACCACATGGACTGGTCCACCAACTCTGACA
GCGGACCCGTCACCTCAGAATTGCTTCATCAGTCCAGAGTCTGGCAGAGAACTGCAAGCACCAGCAAGATCCCCG
CTCTTGAGCCCGTGGCTTCCTTTGCAAAGGCCCAGGGTAAGAAAGGCAGTGCAGGGAACACGTGGAGTCAAGTGT
CTAACAATAACAAAGATCTGCTCTTGGGAGGTGTGGCTCCATCCCCAAGCAGCCACAGTCAACAGCCCCACCCA
GCAGCTCTGCTGAGTGCAACGGGCTTCAGCCTTGGTGGATCAAGATGGAGGAGGTACAAAGGAGCCCCAGAAC
CACCTACGGTGGGCAGCAAGAAAAGTCCAGTAAAAAGATGTGATAAGTCAGACCATAACAAACCCAGACCTGG
ATTGGGTCAAGAATGCCAGAAAGCATTGACAATACAGAAGGGAAAAGGAAGGTTATTCGCGAGATAGTGCCC
AAGAGGCATCACCAGCCAGGCAGAACGTGAGTTCTGCCAGTAATCCTGAAATGACTCAAGTCATGTCCGGATTA
CTATCCCCATCAAGGCACCTCTCTGGATCCAACCAACCATAAGAGGAAAAAAGACAGTCCATTAAAGCGGTGG
TGGAAAAGATCATGCCAGAGAAAGCCTTGGCTTCTGGAATCACCATGAGCAGTGAAGTAGTTAACAGGATACCTT
CCAACCTCTGAGGGGAATAAGAAGGATCCCCGTGTCCCTAAGTTGAGTAAAAATGATAGAGAAAGTAGTCCCCCTCAG
TTGGCCTTGAACTGGTGGAAATGCTGAGAAAGTTATCCCAGGAGGTGTGTCTAAGCCGCGGAAGCCACCCATGG
TCATGACACCTCCAACGTGCACAGATCACTCTCCATCCAGAAAGCTGCCAGAAATCCAGCATCCAAAAATTTGCTG
CAAAACGAAGGTGGACTTGCAGCAAAACCAAAACCTAGCACCATGCTTCGAGAGGCAGTTATGGCCACCTCTGATA
AACTGATGCTGGAGCCCCGTCTGCATATCCCATCACCCCATCCAGCCCTCTCTACACCAACACAGACAGTCTTA
CTGTGATCACTCCAGTCAAAAAGAAGCGGGGACGACCAAGAAGCAGCCTTTGCTCACAGTCGAGACGATTATG
AGGGAACCTCCACCAGCCCCGTCAAGTCCCATCAGCCGAGAGTTTCTGGCACTAAGAAAAGAAAGCGACGACGCA
ATTTAGCGAAGTTGGCCCAGCTAGTGCCGGGAGAGGACAAACCATGAGCGAGATGAAATTTCAAGAAAGTTG
GAAAGCTCGGCGTGTGGATAAGAAGACCATCAAACTATCAATAAGATGAAGACACTCAAGAGGAAAAACATCT
TGAATCAGATCTTGTCTGTTCAGCAGCGTGTCTGTAAGGCAAAAGCTCCCCAGAGACCAGCCCTGGGGCAG
CAGCCATTGAAAGCAAACTGGGCAAGCAGATTATGTGAGCAAGAGGGGAACCATCTACATTGGCAAGAAGCGGG
GCAGGAAGCCAAAGAGCAGAGCTGCCACCCCATCCGAAGAACCCAAAACAGCCATCAAGCACCACAGGCTGTTT
CTAGCCAGCCGGATGTTCCAGCCGTGCCTTCCAACCTTTCAGTCACTTGTGGCGTCTTACCAGCAGCTATGCACC
CACTTTCAACACAGTTAGGTGGGTCCAATGGCAACCTGAGCCCTGCCAGCACTGAAACCAATTTTTCAGAGTTGA
AACTATGCCAAATCTCCAGCCCATCAGTGCTCTTCCAACCAAAACCCAAAAGGGAATACACAGTGGAACTGGA
AGCTGTCTCCACCCAGACTGATGGCCAACCTCCCTTACACCTGTGCGAGATTGGCTCCCTAAAGGAAATCACGC
TGTCCTCTGTGAGCGAGTCCCACAGTGAGGAGACGATCCCCAGCGACAGCGGCATTGGGACAGACAACAACAGCA
CTTCTGACCAAGCGGAGAAGAGCTCAGAATCCCGAAGGAGGTACTCTTTGATTCTGCTCCCTGGACAACCCGG
AGGCCATTCCGTCGACACCAGCACAAAGAACCAGGATGGCCACCGGCAAAAGCATCTCATTGTGGACAACCTTC
TGGCCACGAAAGCCTCAAGAAGCCAAAGCACAAAGAGGAAACGGAAAAGCCTGCAAAACCGCGATGACCTCCAGT
TTCTGGCAGACCTGGAGGAGCTAATCACCAAGTTCCAAGTGTTGAGAATCTCCACCGGAGTTACACCTTCTACC
ACGAGAATCCATATCCAGCATTTTTCGGATTAAATTTGATCACTATTACCCGGTGCCATATATCCAGTATGACC
CGTTGCTCTATCTTCGTAGGACTTCAGACTTGAAGTCAAAGAAGAAGCGTGGTAGGCCTGCAAAAACCAATGACA
CCATGACAAAGGTGCCCTTTTACAAGGGTTCAGTACCCTATTCCCAGTGGAAGTTACTATGACCCCTATGGAA
TGCCTTACACATCAATGCCTATGATGAACCTTGGTTATTACGGTCAGTACCCAGCTCCTTTGTACCTATCGCACA
CGCTTGGAGCAGCTTCCCCATTATGAGGCCAACAGTGCCACCACCTCAGTTCCACACAAACTCCACATAAAGA
TGTCCGGTGCAGCTAAGCATAAAGCCAAGCATGGAGTACACCTGCAGGGACCTGTTAGCATGGGCTTGGTGACA
TGCAGCCTTCTCTGAACCCTCCCAAGGTAGGCAGTGCCAGTCTGTCCAGTGGTCCGCTCCATAAGAGGAAACACA
AACACAAGCATAAGCACAAAGGAAGACCGGATCCTAGGGACCCATGACAACTGAGTGGTCTTTTTGTCAGGCAAG
CCACAGGCTTCTCCAGCCACATCCTGAGCGAGCGGTGAGTAGCGCAGACAAAGAGCTCCCGCTGGTGAAGTGA
AGAACAAGCATAAGGAGAAACAGAAGCACCAGCACAGCGAAGCCGCCACAAAGCTTCTAAGAACAACCTTGAGG
TGGACACCCCTGTCTACACTGTCACTTTCCGACGCCCAGCATTGGACACAGGCCAAGGAAAAGGAGACTTGAGCA

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FIGURE 2267B

GTGAGCCTGTGGACTCATGCACGAAAAGATACTCTGGCAGTGGCGGGGATGGTGGCAGCACGAGATCGGAGAACC
TGGACGTGTTCAAGTGAATGAACCTTCGAATGACAAGTGGGACAGTGACGTGAGTGGGAGTAAAAGGAGGAGCT
ATGAAGGCTTTGGAACGTACAGGGAAAAGGACATCCAAGCCTTCAAGATGAACCGCAAGGAGAGAAGTTCTTATG
ACTCTCCATGTCTCCAGGGATGCCAAGTCCCCACTTAAAAGTGGACCAGACAGCAGTGCATAGTAAGAACGAAG
GCTCAGTGGCCACCATGATGACCAGGAAGAAGCCAGCCGAGTTGACAGTGTACAATTCCACCAGCCCCAGTGT
TATCTCTCCTTGCTGCATCTGCAGCAACGTCGGATGCAGTCGGCTCCTCCCTGAAGAAGAGGTTCAAGCGGCGGG
AGATCGAAGCCATCCAGTGCGAAGTGCAGAAGATGTGCACTACACCAAGATCCTGTCCACCAAGAAGAACCTGG
ACCACGTGAACAAGATCCTGAAGGCCAAGCGGCTGCAGAGACAATCAAAAACAGGCAACAACCTTCGTGAAGAAGA
GGCGCGGGCGTCCCAGGAAGCAGCCACCCAGTTTCGATGAGGACTCCAGAGACCAAATGCCGGTGCTGGA AAAAT
GCATCGACCTGCCCAGCAAAAGAGGCCAGAAGCCCAGCCTGAGCCCGCTGGTGCTGGAGCCCCGCCAGCCAAAG
ACACCATCATGGCCACCATCGAGGCGGTATCCACATGGCCCGGGAGGCGCCGCCCTGCCCGGCCACCGCCGC
CGCCCCCTGCCGCCACCGCCGCCACCCCTGCCCGGCCACCCCTCTACCCAAGACCCCCGAGGCGGAAAGA
GGAAACACAAACCGCAGGCCCCGCTCAGCCCCACAGCAGTGCAGCCCGCAGCAGCCCTTCCCCAGGAAGAGG
AGGTGAAAGCCAAAAGGCAGAGGAAGTCCCGAGGGAGTGAGAGCGAGGTCTTCCCTAGGGCGGGTCTGGGCGTC
TGCACCTGGGGCCTAGGGAAGTACACGTGGGAAGCGCAGTGAGCCGGGGCGGGGCGGAATCCCCCGCTGCAGG
GACACCCACGCCCTTCTCTCCAGAAGCCGGGCAGGCAGAATCCGCCAGACGACGGGGCTGAGCCATCAGGAGCT
CTTGGGAAGCAAAGCAGGGAGACACCTTCAGAAGAAGCTTGTCTGAGCTTCACCGCAGCTCCCACCACGCGGCG
CTTCAGTACGGCTGGATCCTCCGCAGGCGAGCGGAAGGCCCCAGGAGGAGCAGGCTGGTGGCACTCTCCTGACC
TCACGCTGCCAAGGTGCGCCCTCGACTCCCGATTTCATTTGCTGGCCAGGAAAATCGAAAGGGAAACACCCTCAA
TTAGGAAACATTCCAAGGGGAGAAAAGCTGCAAATTGCTCAACTGGCATTGCTGTAACCCGTTCCATTTAATTGG
TTTTTATTTCTTTGATTTTCAAGCTCTGCTAAGCTTTGGGGTACCAACGTCATCTTCAGGTGACCTGAATCTTT
CCCTTAACCGTACAGTTTCTCGATGGAATTGTGTGATCAGAAGGTGGAATTCTAGTGATAGGCGACCTCAGACCC
GCATTCATGTTCTGTGTGCCTCTTCTATTGCACATACACTGATTTTTAGCATGTCTATTCTATTTTTCTTTG
CCCATTGTACTTCCATATATCTTTTCATTAACTTACTTGCTGCCTTTTTTTTTCTTGGTACACATTTAAATAAA
GTAATCCTTAACCTGTGCTGTAAAGTTCACCCCTGGCATGCTGTTCCAAGAACCTGGGTTTGAATCCCAATCGTT
GTGAAACATACTCAGTATTGATAAAACCTTTTTTAATAAGTGATGCAGAGCAGCCAAGGATATGTTGACCCAGATG
TCAACCAGGCTATTTTTATACTTAAAACATGTCAGCAGAGCATAGGCAGAATAAAATGGTTTAAATACCCACAG
CAAATAGAGTAACTGACAAACCAAAAACTGAAACCCAGACCCACCAGAAAGACAAGTGTCTAGCAATGCCT
TGGTACCTGATCTTTTCATTCAAATAATTGTCATAGGTTGTTT

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FIGURE 2268

MEPEEDELGSGRDVDSNSNADSEKWVAGDGLLEEQEFSSIKEANFTEGSLKLKIQTTRAKKPPKNLENYICPPEI
KITIKQSGDQKVSRAKNSKATKEEERSHSHKKLLTASDLAASDLKGFQPAAYERPQKHSTLHYDTGLPQDFTGD
TLKPKHQKSSSQNHMDWSTNSDSGPVTQNCFISPESGRETASTSKIPALEPVASFQAKQGGKSAGNTWSQLSN
NNKDLLLGGVAPSPSSHSSPAPPSSSAECNGLQPLVDQDGGGTKEPPEPPTVGSKKKSSKKDVISQITPNPDLW
VKNAQKAFDNTGKREGYSADSAQEASPARQNVSSASNPENDSSHVRITIPKAPSLDPTNHKRKKRQSIKAVVE
KIMPEKALASGITMSSEVVNRILSNSEGNKKDPRVPKLSKMIENESPSVGLETGGNAEKVIPGGVSKPRKPPMVM
TPPTCTDHSPSRKLPFIQHFKFAAKRRWTCSPKPKSTMLREAVMATSDKLMLEPPSAYPITPSSPLYTNTDSLTV
ITPVKKRGRPKKQPLLTIVETIHEGTSTSPVSPISREFPGTKKRKRNRNLAKLAQLVPGEDKPMSEMKFHKKVVGK
LGVLDDKTIKTINKMKTILKRKNILNQILSCSSSVALKAKAPPETSPGAAAIESKLKQINVS KRGTIYIGKKRGR
KPRAELPPPSEEPKTAIKHPRPVSSQPDVPAVPSNFQSLVASSPAAMHPLSTQLGGSNGNLSPASTETNFSELKT
MPNLQPTISALPTKTQKGIHSGTWKLSPPRLMANSPSHLCEIGSLKEITLSPVSESHSEETIPSDSGIGTDNNSTS
DQAEKSSSESRRRYSFDFCSLDNPEAIPSDTSTKNRHGRQKHLIVDNFLAHESLKKPKHKRKRKSLQNRDDLQFL
ADLEELITKFQVFRISHRSYTFYHENPYPISIFRINFHYYPVPIQYDPLLYLRRTSDLKSKKKRGRPAKTNDTM
TKVPFLQGSYPIPSGSYYPYGYMPYTSMPMMNLGYGQYPAPLYLSHTLGAASPFMRPTVPPPQFHTNSHIKMS
GAAKHKAKHGVHLQGPVSMGLGDMQPSLNPPKVGSASSLSSGRLHKRKHKKHKKHKKEDRILGTHDNL SGLFAGKAT
GFSSHILSERLSSADKELPLVSEKNKHKEKQKHQHSEAGHKASKNNFEVDTLSTLSLSDAQHWTQAKEGDL SSE
PVDSTKRYSGSGDGGSTRSENLDVFSEMNP SNKWDSDVSGSKRRSYEGFGTYREKDIQAFKMNRKERS SYDS
SMSPGMPSPHLKVDQTAVHSKNEGSVPTMMTRKKPAAVDSVTIPPAPVLSLLAASAATSDAVGSSLKKRFRREI
EAIQCEVRKMCNYTKILSTKKNLDHVNKILKAKRLQRQSKTGNNFVKRRGRPRKQPTQFDEDSRDQMPVLEKCI
DLPSKRGQKPSLSPLVLEPAASQDTIMATIEAVIHMAREAPPLPPPPPPPLPPPPPPPLPPPPPLPKTPRGGKRK
HKPQAPAQPPQOSPPQQPLPQEEEVKAKRQRKSRGSESEVLP

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FIGURE 2269

GCCGCTTTTTTTTTTCTCATCTGCCATTTGTGTGTCTTAGATGGGTTTTAATTGCATGAATGTGGCTAATGTG
GTTCTCAGAAATTGGTCAGTATGGCCCGACATAGCTTCTGCTCTGTCTTGCTGACTCAATACCTTTAGGATTGT
ATCAGAGTTTGGATACTAGTGTTAGTGGTGGTGTCAACCACTACTTAATTGGGAGATAATGAAACCAATCATGGAT
GCTGTTTTTATTGGGCATGTCTATCTAAGAGAGGAGAAATAGCTGGGTTTTGGGTCTAATTATGAATAAGGACTGA
TTCAGAAAACGAGTTTATGGTAGGTAGACTAAAGTTTCACATCAGACTGTACCATTGTGATTTAGACCTATCTAA
AATTCAGAGCATATCATCTGGGCTACCTCAGGGTCACCACCCATGTATTGGGCTTAGTCAGGATTGACAGATACA
TTCTCAGCTGGCCTGTCATATAAAACATACTGTCATTGAGCTTAAGCTCCGCTTGTTCTGAGGTTTCACCTCCAT
GTGTTTCATTGGTGCAAAAGTGGATCTCTTAGTTGGTCACTTAATTCTTTCTTTTTTCAGAAAGATAGTATGTTCA
CTGGTATATTTGGTCACCTTAGAACCTTCCTTCACATTGTTTTTTATGGGACCCATGAATGGTTAGCCTTTCTT
TTCTATTGTAGAAGGAAATAAATAGGAGTAAAAAGACCATTGTAGTAAATAAGTTCAAGGGGAACCTGGGACCAG
AAACCACTGTTATGTACAAAAAATGGCAAATTCATAAACTCAAATTTAAAATAATTTTTAAATTAACAGTTAT
GATAAATTTTATATTTTATACAAATAGATTGCTTAGAATGGTTCTCAAGAATTATAAGAGAAATGAACACAGT
ACAAAATTTTATAATTACTATACTTGTGTTTTGTTGGGGCTGGGAAATGTATTTTACATTGTAGCCAATCA
TTTTATATTTGTCAATTTAAATCTTATGGGTCTTTTTTTTTTATCTCTCTTGATGTCAGATTTTATAGTCTTTT
TAAATAAATCCATTTAATTAAACGTTAAAAA

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FIGURE 2270

MINFIFYTNRLRLRMVLKNYKRNELTVQKFYNYITCVLFGGWEMYFYIVANHFIFVNLNLMGLFFFISLDVRFYSL
FK

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FIGURE 2271

GATTTTAGAAGAAAACCCCTTTTGTCAACAATTTTGTGTACATATTTGGCAATTTTCAGTTCGTACGCATCTGCGG
GTTGCAGCCCACGCCGCTTACTCTCAGCGGATGCAGCTGCTCACTTGGGGGCACTGGCCTCTTAGGTTTTAACGA
TGTC AACAGTGTAGTTT TAGAAAATGGCCGTTAGTGGCTCTATTGCAATAATGTTAGGGACATTATATGATTCC
ACGCAGGTACACCATCTGGGCCTGAGGTAGCAGTGGGTCACTTTGATCCACTTTGCAGGACTTATTCTGTAACG
GTTTGTGGCCAAGTTTTGGGAAGTGGTTGATTCTCTTTGCCCTTCATTTACCTTCCTCTTCGTTTACGGTTAGGA
CATCGCTGCTTGATCCTTACAATACTGTGCAACTGCAATGCAACGTGGCCCTGCTTCAGGTGATCCGCGGGAGGG
GCCTCCACGCCAGCGCCGGGAAGGCTGCTGGGGCCTCCACACCTGCCTCATCACGGCGGGAGGCTACGACAATC
CGGCTGGGAGCATGACCTTGGCGTCTGTTCTGGGAGCACGGATGATAAGCTCTGGAAGCTGGCAGTGTGTAAAGC
ACTGGCAAGTTTGTACTGTTAAATGTCAAAATACCAATGCTTTATATCGACGCGAAGTGCTTAACACAGCCGGG
CTTGGGGGCACTCAGGAGGAAGCTGGCCATCCGTGGAGGAGGGCCGGTCTGGACTCCCGCAGGACTCCTCTGA
GGCAGGGCCTGAAGTCTGTACACGTGGTCCAGATTGTCTCTGCTTTTTCTTCACACTGAGTCTCTATATTTAT
TGAACATCTTGCTCTTTTAAAGCCAGAGTAGTGTAAACTGCGTCTCGGATGTCTGTCTTTTGCCTCGAAGCCACGA
TGGATCGCTGGTTTCTCTGCAGCGCGAGGGCTCCGGCGACCAGAGGATTCTCCCGGAAGGCATTCTTGCCCGG
CTCCCCGGGGCACCCCTCAATTGTGTACTACGTCCTTGTTTAGTGTGTATCCGTGCCACGTAGATGATGTCTGT
AACGTAGTTTTGTTTGAATATGAGAATATGCGGCTTAACTTTGATCTGTAAAGGAGCGGGGCGGTGGCCGTTT
GAGCACGCTGTAGACACCGTTCTCATGCTGCCGGGTGGGTTTTGCAGAAGCTCCCTTAGTGATTTTCATGTTTAA
CAGGCAGCATCCATTTCCAGAAATTTCTGGCATTGATTTATATTTGAAGCATACAGGAACTTCTCGTTTCCCTC
GTTTAGCCCCACCCAGATCAGGTGAAAGGGCAGCTTTAATGGTGGTTTTTATGGACCACATTATCAGAGAGCACT
GTGCAAGCCAAATGGTTCAATAATGAATGAAAATCTGGGTGTAAAGAGTAAATATGCCCTGGCTCTTTCTACCA
ATGTTTGCTCCTGGTTGGAAAGAAACCAAGATTAAAGACGGGCTGCTCTTCCAGACTGGCTGTGCCTGCCTGTG
CCCAGCAACCTGTGCAGCCGGCAGTGTGCCTGGTGTACGCCAGGAGGCTGTGGCTGCTGTGGGCCCTCTGGAAT
TGTGCTCCTCACAAAGTTTCCCCAAAAGGTTCTTCTAAGCCTTTATTGTCCCTGGTAAATGTTTCCCGGCTGGGC
GCGGTGGCTCACGCTGTAAATCCCAGCACTTTGGGAGGCCGAGGCGGGTGGATCACCTAAGGTCAGGAGTTTGAG
ATCAGCCTGCCCAACATGGTGAAACCTCGTCTCTACTAAAAATACACAACCTTAGCCAGTCTTGTGGCGCACGCC
TGTAATCTCAGCTACTAGGGATGCTGAGGCAGGAGAATCGCTTGAACCAAGAAAGAGGTGGAGGTTGCGGTGAG
CCAAGATTGCGCCACTGCACTCCAGCCTGGGCAACAGAGGGAGACTCCATCGCCCCCCCCAACAAAAAAAAG
TTTCCCATACACTGGCCTGCCCCAAAACCCACTAACAAATTTTAGCAAAACAGTCCAGGCCAAAGAGGAAGCATT
CATGTTCAATAAGAAAACCCAGCCATTCCGCATGGCTGGTTCCTGAGTGGCTCTGGTGATACTCTCCAGCCACCTG
CTGACATTGAGAAATCTCAGACCTCGGGACTGCTGTTGCGGTACCGTGTGTCTGACACCTGCCAGCAGCCCTTTC
TATCTGCGCGCAGGATGGGGGTGACTGCCCAGACATTCCCGCTAGATAGGCTCTGATTCCGGGGCAGCCTTTC
GATGCGGCAGACATACACACCTGTACTTTAGAGTTTAAAGGGAAAAAAATCAGAAGTGTGGTTAGATAGTAA
AACTTAGGATAACTTAGAAAGGCTAGTTTTAGCTTCTTTGTGGCTCCCTGGTGCAAAACAATTAGCAGTTATG
CAATGGACCTGATTCTAGTTTATTCTAATTAAGAAGTGAGGCCGAGTTTGACTTCGTTCTCTGAATACAATCTTGA
GTAATGGGAAAGTCTGAGTGAAAGGATGGCCTCATTCTCTTCTAATCTTGCTGGTTCAAGATTAGAAAATGG
CATTATTTGATCTGAAATGTTTGAGAAGACACGAATAAAGTTACTTGGGCAGAAAAAAA

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FIGURE 2272

MQRGPASGDPREGPPRQRREGCWGLHTCLITAARLRQSGWEHDLGVCSGSTDDKLWKLAVCKALASLLLLKCQIP
MLYIDAKCLTQPGLGAVRRKLAIRGGGAGPGLPQDSSEAGPEVCTRGPDL SLSFLHTEFSIFIEHLVLLSQSSVN
CVSDVCLLPRSHDGSIVSSAARGLRPEDSSRKAFLPRSPGHPSIVYYVLV

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FIGURE 2273

GCCGGCATTCAATTTAAGGCCTAAGGATGAAGGCGAGAAGAAATAAAAAACAGATCCCAAGCTTTCGCAAGTTAAT
AAAAACTAGTAAAGTCAAACCTTGAAAACAAGCTAAAAAATAAGCAGTTTAAACAACAAAGCACTCTCAAGAAGTA
CCGAAAAGAACAGAGGAACTAAGGCAAGCTGTGAAAGATGCTGTGTCTAAGAAACCCATTCCATTGGAGAACCC
AAAGGAAAAGCGACCAGGTAAAAGGATTGAGAGGGAAGAAGAGGAAGAAGAAGGCCCTTCCTTTAGATATGAT
GGATGAAGATGACTTACAGTTAATGAAGGATTTAGGACAAAGAGTATCTTTTCTAACAAGAGATCTTTCTTCTAG
TGAGCCTGTTTCATGCGAAGAAACGGAAGCATGAACGCATTATAGATAAAATATGAAAAAATACCAAGAAGCTCTGCA
AACTGCACCAGAGAAGGAAGTGAATTCATTTACTTCTATCAAAGATAAAAGTGGTATAATCCACAGACTAGGGA
GAAGCCAGTTACTGATAGTAACAAAGATGAAGAGGATCAAGAAGAAGAGAGGGAAGCTTGAGGAAGAGATCATTGA
AGATCCTATTCAAGAGCTGACCATAGAAGAACATTTGATTGAGAGAAAGAAGAAATTACAGGAGAAGAAGATGCA
TATTGCAGCCTTGGCATCTGCCATATTATCAGATCCAGAAAATAATATTAAAAAATTGAAAGAATTACGTTCTAT
GTTGATGGAACAAGATCCTGATGTGGCTGTTACTGTTGCAAGCTGGTAATTGTTTCTCTGATGGAGTTATTTAA
AGATATTACTCCTTCATATAAAATCCGGCCCCCTCACAGAAGCAGAAAAATCTACTAAGACCCGAAAAGAAACCCA
GAAGTTAAGAGAATTTGAAGAAGGCCTGGTTAGCCAATACAAGTTTATTTGGAAAATCTGGAACAAATGGTTAA
AGATTGGAAGCAGAGGAAGCTGAAGAAAAGTAATGTAGTTTCCTTAAAGGCATACAAAGGACTGGCAGAAGTCGC
TGTGAAGAGCTTGTGTGAGCTGTTGGTGGCACTACCTCATTTTAACTTTCAACAACACATCATCGTATTGATTGT
CCCTCTCATGAATGACATGTCAAAATTGATATCTGAAATGTGTTGTGAAGCTGTGAAGAACTCTTTAAGCAAGA
TAAATTAGGCCAGGCTTCTCTTGGTGAATTAAGTGATTTCTGGTTTTGTGAAGGCAGAAATTACGAAGTTAG
GCCAGAGATGTTAAAAACATTTTTATGCCTAAGAATCAAGGAAGTAGAAGTGAAAAAGATACAGAAGACATTAA
TAAACCAAAAAAATTTATGACTTTCAAAGAAAAGAGAAAATCTCTATCAAGAATGCAGAGAAAGTGGAGAAAGC
AGAAGAGAAACTAGAGCGAGAGCTTCGAGAGGCAGAGCTTCAGAGAGTACTGAGAAAAAACTTAACTGCACAC
AGAGACTCTGAATATTGTGTTTTGTAACCTACTTCAGAATATTGAAGAAGGCCAGAGGTACCTCTCCTGCCAGC
AGTTCTAGAAGGTCTTGCCAAGTTTGCTCACCTTATAAATGTGGAATTTTTTGTGATGATCTGTTAGTAGTTCTTCA
TACTCTCATTGAGTCTGGTGACCTAAGCTATCAAGAAAGTCTTCACTGTGTCCAGACTGCTTTTCATATTCTTTC
TGGACAAGGTGATGTTCTGAATATTGATCCATTGAAATTCTACACACATCTCTACAAAACACTGTTCAAATTACA
TGCAGGTGCTACCAATGAAGGTGTTGAGATTGTACTCCAGTGCCTTGATGTCTAGTAACTAAGCGCAGAAAGCA
AGTTTCTCAGCAGCGAGCTCTTGCCCTTCATCAAACGCCCTTGTACCTTGCTCTTCATGTTCTTCCAAATTCAG
TATTGGCATTTTAGCAACTACCAGAATATTAATGCATACTTTCCCCAAAACAGATCTACTGCTTGACAGTGAATC
TCAGGGAAGTGGAGTTTTCTTCTGAACTGGATGAGCCTGAGTACTGCAATGCTCAGAACACTGCTCTGTGGGA
ACTGCATGCTCTGCGGAGGCATTATCATCCCATAGTGCAGAGATTGCGAGCCACCTGATCGCTGGAGCACCTTC
TGAAGGCTCTGGAGCACTCAAACCAGAGTTGAGTCAAGATCTGCTACTGAACTTTTTGAGGCATATAGCATGGC
AGAAATGACATTCAATCCTCCTGTTGAATCTTCAAACCCCAAAATAAAGGGTAAATTTTTACAAGGGGATTCATT
TTTGAATGAAGATTTAAATCAGCTAATCAAAGATACTCCAGTGAAGTTGCTACTGAATCGCCTCTGGATTTCAC
GAAATATTTGAAAACATCACTACACTAGTAGAGGAATGAAGTCAGTGGAC

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FIGURE 2274

MKARRNKKQIPSFRLIKTSKVKLENKLNKQFKQQSTLKKYRKEQRKLRQAVKDAVSKKPIPLENPKEKRPGR
IEREEEEEEALPLDMMDEDDLQLMKDLGQVRSFLTRDLSSEP VHAKKRKHRIIDKYEKIPRTLQTAPEKELI
HLLPIKDKSGIIPQTREKPVTD SNKDEEDQEEERELEEEI IEDPIQELTIEEHLIERKKKLQEKMHIAALASAI
LSDPENNIKKLKELRSMLEQDPDVAVTVRKLVIVSLMELFKDITPSYKIRPLTEAEKSTKTRKETQKLREFEEG
LVSQYKFYLENLEQMVKDWKQKRLKKSNNVSLKAYKGLAEVAVKSLCELLVALPHFNFHNNIIVLIVPLMNDMSK
LISEMCCEAVKKLQDKLGQASLGVIKVISGFVKGRNYEVRPEMLKTFCLRIKEVEVKKDTEDINKPKKFTF
KEKRKSLSRMQRKWKKAEEKLERELREAEASESTEKKLKLHTETLNIVFVITYFRILKKAQRSPLLPAVLEGLAKF
AHLINVEFFD DLLVVLHTLIESGDL SYQESLHCVQTAFHILSGQGDVLNIDPLKFYTHLYKTLFKLHAGATNEGV
EIVLQCLDVMLTKRRKQVSQQRALAFIKRLCTLALHVLNPNSSIGILATTRILMHTFPKTDLLDSESQSGVFLP
ELDEPEYCNAQNTALWELHALRRHYHPVQRFAAHLIAGAPSESGALKPELSRRSATELFEAYSMAEMTFNPPV
ESSNPKIKGKFLQGDSFLNEDLNQLIKRYSSEVATESPLDFTKYLKTS LH

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FIGURE 2275

ATGGCAGCCCGTCTGCTCCTCCTGGGCATCCTTCTCCTGCTGCTGCCCCTGCCCGTCCCTGCCCCGTGCCACACA
GCCGCACGCTCAGAGTGCAAGCGCAGCCACAAGTTCGTGCCTGGTGCATGGCTGGCCGGGGAGGGTGTGGACGTG
ACCAGCCTCCGCCGCTCGGGCTCCTTCCCAGTGGACACACAAAGGTTCTGCGGCCGACGGCACCTGCACCCTC
TGTGAAAATGCCCTACAGGAGGGCACCTCCAGCGCCTGCCTCTGGCGCTCACCAACTGGCGGGCCAGGGCTCT
GGCTGCCAGCGCCATGTAACCAGGGCCAAAGTCAGCTCCACTGAAGCTGTGGCCGGGATGCGGCTCGTAGCATC
CGCAACGACTGGAAGGTCGGGCTGGACGTGACTCCTAAGCCCACCAGCAATGTGCATGTGTCTGTGGCCGGCTCA
CACTCACAGGCAGCCAACTTTGCAGCCCAGAAGACCCACCAGGACCAGTACAGCTTCAGCACTGACACGGTGGAG
TGCCGCTTCTACAGTTTCCATGTGGTACACACTCCCCGCTGCACCCTGACTTCAAGAGGGCCCTCGGGGACCTG
CCCCACCACTTCAACGCCTCCACCCAGCCCGCTACCTCAGGCTTATCTCCAACCTACGGCACCCACTTCATCCGG
GCTGTGGAGCTGGGTGGCCGCATATCGGCCCTCACTGCCCTGCGCACCTGCGAGCTGGCCCTGGAAGGGCTCAG
GACAACGAGGTGGAGGACTGCCTGACTGTCGAGGCCCAGGTCAACATAGGCATCCACGGCAGCATCTCTGCCGAA
GCCAAGGCCTGTGAGGAGAAGAAGAAGAAGCACAAGATGACGGCTCCTTCCACCAAACCTACCGGGAGCGCCAC
TCGGAAGTGGTTGGCGGCCATCACACCTCCATTAACGACCTGCTGTTTCGGGATCCAGGCCGGGCCCCGAGCAGTAC
TCAGCCTGGGTAACTCCGTGCCCCGGCAGCCCTGGCCTGGTGGACTACACCCTGGAACCCCTGCACGTGCTGCTG
GACAGCCAGGACCCGCGCGGGAGGCACTGAGGAGGGCCCTGAGTCAGTACCTGACGGACAGGGCTCGCTGGAGG
GACTGCAGCCGGCCGTGCCACCAGGGCGGCAGAAGAGCCCCGAGACCCATGCCAGTGTGTGTGCCATGGCTCA
GCGGTACCACCCAGGACTGCTGCCCTCGGCAGAGGGGCTGGCCAGCTGGAGGTGACCTTCATCCAAGCATGG
AGCCTGTGGGGGGACTGGTTCACTGCCACGGATGCCTATGTGAAGCTCTTCTTTGGTGGCCAGGAGCTGAGGACG
AGCACCGTGTGGGACAATAACAACCCCATCTGGTCAGTGCAGCTGGATTTTGGGGATGTGCTCCTGGCCACAGGG
GGGCCCCTGAGGTTGCAGGTCTGGGATCAGGACTCTGGCAGGGACGATGACCTCCTTGGCACCTGTGATCAGGCT
CCCCAAGTCTGGTTCCCATGAGGTGAGATGCAACCTGAATCATGGCCACCTAAAAATCCGCTATCATGCCAGGTGC
TTGCCCCACCTGGGAGGAGGCACCTGCCTGGACTATGTCCCCCAAATGCTTCTGGGGGAGCCTCCAGGAAACCGG
AGTGGGGCCGTGTGGTGA

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FIGURE 2276

MAARLLLLGILLLLLPLPVPAPCHTAARSECKRSHKFVPGAWLAGEGVDVTSLRRSGSFPVDTQRFLRPDGTCTL
CENALQEGTLQRLPLALTNWRAQGGCQRHVTRAKVSSTEAVARDAARSIRNDWKVGLDVTPKPTSNVHVSVAGS
HSQAANFAAQKTHQDQYSFSTDVTECRFYSFHVVHTPPLHPDFKRALGDLPHHFNASTQPAYLRLISNYGTHFIR
AVELGGGRISALTALRTCELALEGLTDNEVEDCLTVEAQVNIGIHGSI SAEAKACEEKKKKHKMTASFHQTYRERH
SEVVGGHHTSINDLLFGIQAGPEQYSAWVNSVPGSPGLVDYTTLEPLHVLLDSQDPRREALRRALSQYLTDRARWR
DCSRPCPPGRQKSPRDPCQCVCHGSAVTTQDCCPRQRLAQLEVTFIQAWSLWGDWFTATDAYVKLFFGGQELRT
STVWDNNNPIWSVRLDFGDVLLATGGPLRLQVWDQDSGRDDDLLGTCDQAPKSGSHEVRCNLNHGHLKFRYHARC
LPHLGGGTCLDYVPQMLLGEPPGNRSGAVW

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FIGURE 2277

CCAGATCTCAGAGGAGCCTGGCTAAGCAAAACCCTGCAGAACGGCTGCCTAATTTACAGCAACCATGAGTACAAA
TGGTGTATGATCATCAGGTCAAGGATAGTCTGGAGCAATTGAGATGTCACCTTTACATGGGAGTTATCCATTGATGA
CGATGAAATGCCTGATTTAGAAAACAGAGTCTTGGATCAGATTGAATTCCTAGACACCAAATACAGTGTGGGAAT
ACACAACCTACTAGCCTATGTGAAACACCTGAAAGGCCAGAATGAGGAAGCCCTGAAGAGCTTAAAGAAGCTGA
AAACTTAATGCAGGAAGAACATGACAACCAAGCAAATGTGAGGAGTCTGGTGACCTGGGGCAACTTTGCCTGGAT
GTATTACCACATGGGCAGACTGGCAGAAGCCCAGACTTACCTGGACAAGGTGGAGAACATTTGCAAGAAGCTTTC
AAATCCCTTCCGTATAGAATGGAGTGTCCAGAAATAGACTGTGAGGAAGGATGGGCCTTGCTGAAGTGTGGAGG
AAAGAATTATGAACGGGCCAAGGCCTGCTTTGAAAAGGTGCTTGAAGTGGACCCTGAAAACCCTGAATCCAGCGC
TGGGTATGCGATCTCTGCCTATCGCCTGGATGGCTTTAAATTAGCCACAAAAAATCACAAGCCATTTTCTTTGCT
TCCCCTAAGGCAGGCTGTCCGCTTAAATCCAGACAATGGATATATTAAGGTTCTCCTTGCCCTGAAGCTTCAGGA
TGAAGGACAGGAAGCTGAAGGAGAAAAAGTACATTGAAGAAGCTCTAGCCAACATGTCCTCACAGACCTATGTCTT
TCGATATGCAGCCAAGTTTTACCGAAGAAAAGGCTCTGTGGATAAAGCTCTTGAGTTATTAATAAAGGCCCTTGCA
GGAAACACCCACTTCTGTCTTACTGCATCACCAGATAGGGCTTTGCTACAAGGCACAAATGATCCAAATCAAGGA
GGCTACAAAAGGGCAGCCTAGAGGGCAGAACAGAGAAAAGCTAGACAAAATGATAAGATCAGCCATATTTCAATT
TGAATCTGCAGTGGAAAAAAGCCACATTTGAGGTGGCTCATCTAGACCTGGCAAGAATGTATATAGAAGCAGG
CAATCACAGAAAAGCTGAAGAGAATTTCAAAAATTGTTATGCATGAAACCAGTGGTAGAAGAAACAATGCAAGA
CATACATTTCTACTATGGTCGGTTTTCAGGAATTTCAAAAGAAATCTGACGTCAATGCAATTATCCATTATTTAAA
AGCTATAAAAATAGAACAGGCATCATTAAACAAGGGATAAAAGTATCAATTCTTTGAAGAAATTGGTTTTAAGGAA
ACTTCGGAGAAAGGCATTAGATCTGGAAAGCTTGAGCCTCCTTGGGTTTCGTCTATAAATTGGAAGGAAATATGAA
TGAAGCCCTGGAGTACTATGAGCGGGCCCTGAGACTGGCTGCTGACTTTGAGAACTCTGTGAGACAAGGTCCTTA
GGCACCCAGATATCAGCCACTTTACATTTCAATTTATGCTAACATTTACTAATCATCTTTTCTGCTTAC
TGTTTTCAGAAACATTATAATTCACTGTAATGATGTAATTCTTGAATAATAAATCTGACAAAATATT

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FIGURE 2278

MSTNGDDHQVKDSLEQLRCHFTWELSIDDDDEMPDLENRVLDQIEFLDTKYSVGIHNLLAYVKHLKGQNEEALKSL
KEAENLMQEEHDNQNANVRSLVTWGNFAWYYHMGRLEAQTYLDKVENICKLSNPFRYRMECPEIDCEEGWALL
KCGGKNYERAKACFEKVLEVDPENPESSAGYAISAYRLDGFKLATKNHKPFSLPLRQAVRLNPDNGYIKVLLAL
KLQDEGQEAEGEKYIEEALANMSSQTYVFRYAAKFYRRKGSVDKALELLKKALQETPTSVLLHHQIGLCYKAQMI
QIKEATKGQPRGQNREKLDKMIRSAIFHFESAVEKKPTFEVAHLDLARMYIEAGNHRKAEENFQKLLCMKPVVEE
TMQDIHFYYGRFQEFQKKSVDNIIHYLKAIEQASLTRDKSINSLKKLVLRKLRRKALDLESLSLLGFVYKLE
GNMNEALEYYERALRLAADFENSVRQGP

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FIGURE 2279

CGGCTGAGAGGCAGCGAACTCATCTTTGCCAGTACAGGAGCTTGTGCCGTGGCCACAGCCCACAGCCCACAGCC
ATGGGCTGGGACCTGACGGTGAAGATGCTGGCGGGCAACGAATTCCAGGTGTCCCTGAGCAGCTCCATGTCGGTG
TCAGAGCTGAAGGCGCAGATCACCAGAAGATTGGCGTGACGCCTTCCAGCAGCGTCTGGCTGTCCACCCGAGC
GGTGTGGCGCTGCAGGACAGGGTCCCCCTTGCCAGCCAGGGCCTGGGCCCTGGCAGCACGGTCTGCTGGTGGTG
GACAAATGCGACGAACCTCTGAGCATCCTGGTGAGGAATAACAAGGGCCGCAGCAGCACCTACGAGGTCCGGCTG
ACGCAGACCGTGGCCACCTGAAGCAGCAAGTGAGCGGGCTGGAGGGTGTGCAGGACGACCTGTTCTGGCTGACC
TTCGAGGGGAAGCCCTGGAGGACCAGCTCCCGCTGGGGGAGTACGGCCTCAAGCCCTGAGCACCGTGTTCATG
AATCTGCGCCTGCGGGAGGCGGCACAGAGCCTGGCGGGCGGAGCTTAAGGGCCTCCACCAGCATCCGAGCAGGAT
CAAGGGCCGGAATAAAGGCTGTTGTAAGAGAAAT

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FIGURE 2280

MGWDLTVKMLAGNEFQVSLSSSMSVSELKAQITQKIGVHAFQQR LAVHPSGVALQDRVPLASQGLGPGSTVLLVV
DKCDEPLSILVRNNKGRSSTYEVRLTQTV AHLKQOVSGLEGVQDDLFWLT FEGKPLEDQLPLGEYGLKPLSTVFM
NLR LRGGGTEPGGRS

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FIGURE 2281

ATGTCGGATTTCGGAGGAGGAGAGCCAGGACCGGCAACTGAAAATCGTCGTGCTGGGGGACGGCACCTCCGGGAAG
ACCTCCTTAACCTACGTGTTTTGCTCAAGAACTTTTGGGAAACAGTACAAACAACTATAGGACTGGATTTCTTT
TTGAGAAGGATAACATTGCCAGGAACTTGAATGTTACCCCTTCAAATTTGGGATATAGGAGGGCAGACAATAGGA
GGCAAAATGTTGGATAAATATATCTATGGAGCACAGGGAGTCTCTTGGTATATGATATTACAAATTATCAAAGC
TTTGAGAATTTAGAAGATTGGTATACTGTGGTGAAGAAAGTGAGCGAGGAGTCAGAACTCAGCCACTGGTTGCC
TTGGTAGGCAATAAAATTGATTTGGAGCATATGCGAACAATAAAACCTGAAAAACACTTACGGTTTTGCCAGGAA
AATGGTTTTAGTAGCCACTTTGTCTCAGCCAAGACAGGAGACTCTGTCTTCCTGTGCTTTCAGAAAGTTGCTGCT
GAAATCCTTGGGATCAAATTAACAAAGCAGAAATAGAACAGTCACAGCGTATTGTCAGGGCAGAAATAGTGAAG
TACCCGGAAGAAGAAAATCAACATACCACCTCTACTCAGAGTAGAATCTGTTCAGTACAGTAGTGCAGAGGGTGG
TGAAGGCAGATATTGTAAACTACAACCAGGAACCTATGTCAAGGACTGTTAACCTCCTAGAAGCTCTATGTGTG
CAGTTCAGTGAGCGCATTTTTCC

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FIGURE 2282

MSDSEESQDRQLKIVVLGDGTSGKTSLTTCFAQETFGKQYKQTIGLDFLRRITLPGNLNVTLQIWDIGGQTIG
GKMLDKYIYGAQGVLLVYDITNYQSFENLEDWYTVVKKVSESESTQPLVALVGKNKIDLEHMRITKPEKHLRFCE
NGFSSHVFSAKTGDSVFLCFQKVAEILGIKLNKAEIEQSQRIVRAEIVKYPEEENQHTTSTQSRICSVQ

[illegible]

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FIGURE 2284

MNPTDIADTTLDESIYSNYLYESIPKPCTKEGIKAFGELFLPPLYSLVFVFGLLGNSVVVLVLFKYKRLRSMTD
VYLLNLAISDLLFVFSLPFWGYAADQWVFGGLCKMISWMYLVGFYSGIFFVMLMSIDRYLAIVHAVFSLRART
LTYGVITSLATWSVAVFASLPGLFSTCYTERNHTYCKTKYSLNSTTWKVLSSLEINILGLVIPLGIMLFCYSMI
IRTLQHCKNEKKNKAVKMIFAVVVLFLGFWTPYNIVLFLETLVELEVLQDCTFFERYLDYAIQATETLAFVHCCLN
PIIYFFLGEKFRKYILQLFKTCRGLFVLCQYCGLLQIYSADTPSSSYTQSTMDHDLHDAL

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FIGURE 2285

AGGCGCTAGAGCGGGGGCGCCGGGAGGCGGGGCTTTGCTCCTGGGGTCTCGGCCTTGGCCGGCTGGACCTGAC
CCTAGGGCGGCTTGCAGCTGTGCGGACGTGACTGCGTTACGCCGCGTCGGGCGTGCTTCCCAGACTTGCCCAA
GTTCCGGGTGCCCTAGCTGCCCCTTTGCAGCCGCTGGCCTACCCGGCCCGGGGTGAGAAGGTTGCGACGGGAGGT
GGGTGGAAGCTCGCCAGCGCCGGGACCGCGGATTGGCTGCCTCGGCTTTCTCTTTTCCCGTGGGCTCCGGCGTGA
GGCGCTGAAGCGGCCCGGACGCCGGGACCGGCCCTACCGTCCGCGGGTTGCGCTCTGCTTTTGGGTGAGGCG
TTGACCACGCCCATATGAATTGGAGCTCTCCGCCAGTAGGAGTTTCCGGAAGGAGTTTGAATTTTGTGATTTT
ATGCTTGTGGTTCGGTGGAAATATGTTGGGATTTATGTTTGCCTCTGAACAAGTGTCTTGCTCACATCGTAAATG
ACTTTCTCTCCGAAACGCTAAATATTCTTTCCCGCAGGAGCTCATATCCTTATTTTCCATGACAGATCTTAACGA
CAATATATGCAAAAGATATATAAAGATGATAACTAATATAGTTATACTGAGCCTGATCATTTCGATTTTCGTTAGC
TTTCTGGATTATATCAATGACTGCAAGCACCTATTATGGTAACTTACGACCTATTTCTCCGTGGCGTTGGCTGTT
TTCTGTTGTTGTTCTGTTCTGATCGTCTCTAATGGCCTTAAAAAGAAAAGTCTAGATCACAGTGGGGCTCTAGG
AGGGCTAGTCGTTGGATTTATCCTAACCATTGCAAATTTTACGCTTTTTTACCTCTTTGCTGATGTTTTCTTGTG
TTCTTCGAAACTCACTAAATGGAAGGGAGAAGTGAAGAAGCGTCTAGATTCAGAATATAAGGAAGGTGGGCAAG
GAATTGGGTTTCAAGTGTCTGTAATGGAGCTGTACCCACAGAAGTGGCCCTGCTGTACATGATAGAAAATGGCCC
CGGGGAAATCCAGTGCATTTTCCAAGCAGTACTCCGCTTCTGGATGTGTTGTCTCTCTTGGCTGCACTGGC
CTGCTCTGCTGGAGACACATGGGCTTCAGAAGTTGGCCAGTCTGAGTAAAAGTCTCCAAGACTGATAACAAC
CTGGGAGAAAGTTCCAGTTGGTACCAATGGAGGAGTTACAGTGGTGGGCCTTGTCTCCAGTCTCCTTGGTGGTAC
CTTTGTGGGCATTGCATACTTCTCACACAGCTGATTTTTGTGAATGATTTAGACATTTCTGCCCCGAGTGGCC
AATTATTGCATTGGTGGTTTAGCTGGATTACTAGGATCAATTGTGGACTCATACTTAGGGGCTACAATGCAGTA
TACTGGGTTGGATGAAAGCACTGGCATGGTGGTCAACAGCCCAACAATAAGGAAGGCACATAGCAGGGAAACC
CATTCTTGATAACAACGCAGTGAATCTGTTTTCTCTGTTCTTATTGCCCTCTGCTCCCAACTGCTGCTTGGGG
TTTTTGGCCAGGGGGTGAAGTCTTATTTTCACTTCCACAGGTTGAAACTGGTGGTGGTCCAGCTAAATTTGCAATTC
AACTTTTATCTTAAGAATAAATACTGTAATGGCAAAGCGGAAATGCCAGTTCCTCTGTATTCCATTGAGATGGG
ATTTACATTTTCTCTCATCACTCCCTGTAAATAGCTAGCGTCTTTCTAGTGAAAGAGAAGAAATTCCTAGAAC
TTATGCATTTTTTCTCTGCTGAATGGAAGTCTTGAAGCAATGAAGCTATATTGTCCCTACATATTACTATATATTG
AACTGAAAGTCTTACATAATCAATGTCAAGTTTGTCTTATTTTGTGTTTGTGTTTAAACCAGTGTAGGAAAT
AAAAGTGATGATATTTAAATAGTTCTCAGTTGAAGCAGAGAAATGCCACTGTGCTAGTTGCCCAATGTTGTAT
CTATTTTAAATAGTTTAAAGCTGATGTGTATGGGAGCCTAAACAAGTGTAGTATCCTGAAGTCTCTCCCATTAATTG
CTATTACAAATTGGGAAAAGTGTGGAGATTGGTTCTTAGTGAGTTTTGTGGCCTACTCCACATTTGTTCTTCTCT
CCTCAGGGTTAGTGATGAAAAAAGTAAATATCTTTTTCATATGTCCATTAGAAATGTATGAAAAAATCATTTTA
ACTAAAAGCAAAAGAAATTTATCTTATATCTAAAAAATATATAACTTACTATATGTTTCAGTTGCTCTCTGAACA
AAAATTATCTTCAATTTAATATGTGGAATGTGTTTTCTAGCTTTCTTTGAATTATGTATGGCAACCTGGTTTAGC
ACTGGCATCCTGAACAGTTAAGAGTCACTGGGAAATATTGTATTCTTTTATAAATTTACTGTCTATCAATTGC
TGGAAAATGCTATGATTTTTCTATTATTACCTTCAAGTTGTATTCTCTCTTACACTGTAGCCTCAACTAAGGCA
ATTCGTCTATGTTTGTCTTCACTATGATTTACTGTGTGCCAAAGGAGTTTTGACAGGGTACAGAGTATTTTACT
AAAAGTATTTTTTAAATGTTTCTCATGTGATTTCTGTACCTTCTCCTCCTGCCCCCTTTGCTTTTTTAAAGAAAC
TGGGGAAGGATTTATGAATACACCACCAGAGTGGATAATGCTTAGAATCTTTATTGGTGGCCCTACTATGG
TGATGATCTAGAACTGACTTACTTTCAGGACAGAAGAAAAACAATCACACCCTTAACCTTTAAGCCAGTTAGATC
AGGGGGTTGCAACAATTGGGTAAACTTTGGGTATACATTGGAAGCACCAGGCATGTTTGTCTTTTTTGTGTTAT
GTGTTTGTGTTTTTGGAGACAGAGTCTCACACTGTGGCCAGGCTGGACTCCAGCACAGTGGCATGATCTCAGCTCC
GCCTCCTGGGTTACGTGATTCTCATGCCTCAGCCTCCCGGTGGCTGGGATCACAGGCGTGCACCATCACGCC
GGCTAATTTTTGTATTTTCACTCGAGACCGGCCCTGGCCAACGTGGTGAAACACCGTCTCTACTAAAAATACAAA
AATTAGGTGTGGTGGTGGTGGCTGCTGATTCCCGGCCACTCGGGAGGCTGAGGCAGGAGAATCGCTGGAACCTGGG
ATGTGGAGGTGTCAGTGAGCCAAGATTGCACCACTGTACTCCAGCCTGGGCAACAGAGGGAGACTCCATCTAGAC
TCCATCTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2286

MTDLNDNICKRYIKMITNIVILSLIICISLAFWIIISMTASTYYGNLRPISPWRWLFVVPVLIVSNGLKKKSLD
HSGALGGLVVGFILTIANFSFFTSLMFFLSSSKLTWKGEVKKRLDSEYKEGGQRNWVQVFCNGAVPTLALLY
MIENGPGGEIPVDFSKQYSASWMCLSLAALACSAGDTWASEVGPVLSKSSPRLITTWEKVPVGTNGGVTVVGLVS
SLLGGTFVGIAYFLTQLIFVNDLDISAPQWPIIAFGGLAGLLGSIVDSYLGATMQYTGLDESTGMVVNSPTNKAR
HIAGKPILDNNAVNLFSSVLIALLLPTAAWGFWPRG

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FIGURE 2287

CACAGGGACTGCGCTCCCTTGCCCCTAGCGCTCCCGCGCTGCTGCTCCAGCCGCCCGGCAGCTCTGAGGATGGAG
AGGAGGGCGCGGAGCTCCTCCAGGGAGTCCCGCGGGCGAGGCGGCAGGACTCCGCACAAGGAGAACAAGAGGGCA
AAGGCCGAGAGGAGCGGCGGGGGCCGCGGGCGCCAGGAGGCTGGGCCCAGCCGTCTGGGCTCCGGACGGGCGGGG
ACCCCGGGGGAGCCCCGAGCGCCCGCCGCCACGGTGGTGGACGTGGATGAGGTCCGAGGCTCCGGCAGGAGGGC
ACCGAGGTGGTGGCGCTGTTGGAGAGCGAGCGGCCCGAGGAAGGTACCAAATCCTCCGGCTTAGGGGCCCTGTGAG
TGGCTTCTGTCTCATTTCCTGCTCTTCATCATCATGACCTTCCCTTTTCCATCTGGTTCTGCGTAAAGGTT
GTACAAGAGTATGAAAGAGTAATTATATTCCGACTGGGACATCTGCTTCTGGAAGAGCCAAAGGCCCTGGTCTT
TTCTTTTTTTTGCCCTGCCTGGATACCTACCACAAGGTTGACCTTCGTCTCCAACTCTGGAGATACCTTTTCAT
GAGATCGTGACCAAAGACATGTTTATAATGGAGATAGATGCCATTTGCTACTACCGAATGGAAAATGCCTCTCTT
CTCCTAAGCAGTCTTGCTCATGTATCTAAAGCTGTGCAATTCCTTGTGCAAACCACTATGAAGCGTCTCCTAGCA
CATCGATCCCTCACTGAAATCTTCTAGAGAGGAAGAGCATCGCCCAAGATGCAAAGGTTGCCTTGGATTCACTG
ACCTGTATTTGGGGAATCAAAGTGGAGAGAATAGAAATTAAGATGTGAGGTTGCCAGCTGGGCTTCAGCACTCA
CTGGCTGTGGAGGCTGAAGCGCAAAGACAAGCCAAAGTGC GGATGATTGCTGCAGAAGCGGAAAAGGCTGCTTCT
GAGTCCCTGAGGATGGCAGCTGAGATTCTGTGAGGCACCCCTGCTGCTGTTGAGCTTCGATACCTCCACACCCTT
CAGTCTCTGTCCACAGAGAAGCCTTCCACTGTGGTTTTACCTTTGCCATTTGACCTACTGAATTGCCTGTCTTCT
CCCAGCAACAGAACTCAGGGAAGCCTCCCTTCCCAAGTCCTTCCAAACCTGTTGAGCCACTAAATCCTAAAAAG
AAAGACTCTCCCATGTTATAGGAAGGATGGGGCATAATGTGACTGTAAAGGGGCCTGCCATAGAAAAGTCACATC
CCTGAGGGAGACACTCTGTCTCATTCCCTGCCCTTCCCTTTGGTTGCCATATGGAATGGCCATGGAATGCACGAA
GTCACAATGCACCATCCATGAGAAGACAGTGAAATGATGTAATGACAGAGAAGGCAGACAACATGTTTCCGTGAC
TCATCTAGTCAGAGCAATTATGGGAAACAGCTTTGGTCAACATTCTACTTTGGAAAGAATTTTGAGTCTAGATGT
GGTTAAATTTTGACTTCTGGGAACCTTGGTTGAGATGTCCCTTTCACTGTATGTCCCTCTGACCCCTTTGGCAAGGT
TGCCACAGCTCCACAGCCCTTCCCTACAAGCACCTATCATTGGGCTTGTACACTCTATTGCTCTTCTGTCCCGA
AGATGCAGTCTTCTCTCCAATGATACTACCAAGTCTTAGTTTTCTCAACCACACTCAATCTTTTTGCTCCACCC
TGAATTCCTCACACCTAACCTGATAGTTACCTAAAGTGACACTTAAATGTTTCAGAGTGAATGCAAAAAGAGA
GATGTACTTGGAGTCGGATATACAATTTATCCCTAATTAAGCATTATAAAGG

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FIGURE 2288

MERRARSSSRESRGRGGRTPHKENKRAKAERSGGGRQEAGPEPSGSGRAGTPGEPRAPAAPTVVDVDEVRSGE
EGTEVVALLESERPEEGTKSSGLGACEWLLVLISLLFIIMTFPFSIWFCVKVVQEYERVIIIFRLGHLLPGRAKGP
GLFFFLPCLDTHYHKVDLRLQLEIPFHEIVTKDMFIMEIDAICYRMENASLLLSSLAHVSKAVQFLVQTTMKRL
LAHRSLTEILLERKSIAQDAKVALDSVTCIWGIKVERIEIKDVRLPAGLQHS�AVEAEAQRQAKVRMIAAEA
ASESLRMAAEILSGTPAAVQLRYLHTLQSLSTTEKSTVVLPLPFDLLNCLSSPSNRTQGS�FPSPSKPVEPLNP
KKKDSPML

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FIGURE 2289

ATGGATGGGGGAACCGGGCGGCGAGACGGCGGCAGGACGGCGGCAGGATGTGTGACCGGAATGGTGGTCGGCGGC
TTCGACAGTGGCTGATCGAGCAGATTGACAGTAGCATGTATCCAGGACTGATTTGGGAGAATGAGGAGAAGAGCA
TGTTCCGGATCCCTTGGAAACACGCTGGCAAGCAAGATTATAATCAGGAAGTGGATGCCTCCATTTTTAAGGCCT
GGGCAGTTTTTAAAGGGAAGTTTTAAAGAAGGGGACAAAGCTGAACCAGCCACTTGGAAAGACGAGGTTACGCTGTG
CTTTGAATAAGAGCCCAGATTTTGAGGAAGTGACGGACCGGTCCCAACTGGACATTTCCGAGCCATACAAAGTTT
ACCGAATTGTTCCCTGAGGAAGAGCAAAAATGCAAACTAGGCGTGGCAACTGCTGGCTGCGTGAATGAAGTTACAG
AGATGGAGTGGGTGCTCTGAAATCGACGAGCTGATCAAGGAGCCTTCTGTGGACGATTACATGGGGATGATCA
AAAGGAGCCCTTCCCCCGGAGGCCTGTCGGAGTCAGCTCCTTCCAGACTGGTGGGCGCAGCAGCCCAGCACAG
GCGTGCCGCTGGTGACGGGTACACCACCTACGACGCGCACCATTTCAGCATTCTCCAGATGGTGATCAGCTTCT
ACTATGGGGGCAAGCTGGTGGGCCAGGCCACCACCACCTGCCCCGAGGGCTGCCGCCTGTCCCTGAGCCAGCCTG
GGCTGCCCCGGCACCAAGCTGTATGGGCCCGAGGGCCTGGAGCTGGTGCGCTTCCCGCCGGCCGACGCCATCCCCA
GCGAGCGACAGAGGCAGGTGACGCGGAAGCTGTTTCGGGCACCTGGAGCGCGGGGTGCTGCTGCACAGCAGCCGGC
AGGGCGTGTTCTGTAAGCGGCTGTGCCAGGGCCGCGTGTCTGCAGCGGCAACGCCGTGGTGTGCAAAGGCAGGC
CCAACAAGCTGGAGCGTGATGAGGTGGTCCAGGTCTTCGACACCAGCCAGTTCTTCCGAGAGCTGCAGCAGTTCT
ATAACAGCCAGGGCCGGCTTCCTGACGGCAGGGTGGTGTGTGCTTTGGGGAAGAGTTTCCGGATATGGCCCCCT
TGCGCTCCAACTCATTCTCGTGAGATTGAGCAGCTGTATGTCCGGCAACTGGCAGAAGAGGCTGGGAAGAGCT
GTGGAGCCGGCTCTGTGATGCAGGCCCCGAGGAGCCGCCGCCAGACCAGGTCTTCCGGATGTTTCCAGATATTT
GTGCCTCACACCAGAGATCATTTTTTCAGAGAAAACCAACAGATCACCGTCTAAGTGGCTGCTTGGGCGCCCCAC
CCCGTCTGCGTCTGTCATCATCTCCCTGTIACAGTGGCCCGCATCATGATTAAAGAATGTGGATCCCTCTGTCT
GGGGTGGGATGCCTTACTTTGCACTTAATTTAATAAGGGCATTCTCGGAGGAGTAGACGTTTAATACGAAGTGGC
GCATAGCCCTGCCGAGATGTCGGTGATGGCCTGATGCG

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FIGURE 2290

MCDRNGRRRLRQWLIEQIDSSMPGLIWENEEKSMFRIPWKHAGKQDYNQEVDASIFKAWAVFKGKFKEGDKAEP
ATWKTRLRCALNKSPDFEEVTDRSQLDISEPYKVYRIVPEEQKCKLG VATAGCVNEVTEMECGRSEIDELIKEP
SVDDYMGMIKRSPSPPEACRSQLLPDWWAQQPSTGVPLVTGYTTYDAHHSASFQMVISFYGGKLVGQATTTCPE
GCRLSLSQPGLPGTKLYGPEGLELVRFPPADAIPSERQRQVTRKLFHGLERGVLLHSSRQGVFVKRLCQGRVFC
GNAVVKGRPNKLERDEVVQVFDTSQFFRELOQFYNSQGRLPDGRVVLCFGEFPDMAPLRSKLILVQIEQLYVR
QLAEEAGKSCGAGSVMQAPPEPPDQVFRMFPDICASHQRSFFRENQQITV

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FIGURE 2291

GGTGACAGCAAGCTGTGATTCTTGGGAAAACATAAAAAAGTTTTCTGGGACAACGGGGCCCCAGAGTGATGGCAG
ACAATGTCAGCCACTAACAACATAGCCCAGGCCCGGAAGCTGGTGGAACAGCTACGCATAGAAGCCGGGATTGAG
CGCATCAAGGTCTCCAAAGCGGCGTCTGACCTCATGAGCTACTGTGAGCAACATGCTCGGAACGACCCCTGCTG
GTCGGAGTCCCTGCCTCGGAGAACCCCTTTAAGGACAAGAAACCTTGTATTATTTATTAAGTGTGTCTCATATG
TTCTCTCTCTCTCTCTTTCTTTCTCTCTCTCTCTGTCTCTGTCTCTGTCTCAGGCAGGGCATATTCAGTAAT
TAGCTCAAACAAAACATCTCAAGTCCCCAAAACCTTTAATTCCAAAAGAAATCCCCCTCTACCCGCCAAAAAA
GGCGTTCCACCGCCCGGATGGGGTAGAATGGACCTGTAGGTGGAGATGAATTTTCAGGTCCGACCCCATGGCC
TTCTCAGTTTGGGCCAAAAGGGATGGAGGCTTTACGGCCACTTCCCGTTCGGAATAACTGAAATCCCCAGCGATG
GGGTAAACAATTTTTTAAACTCTCGATTGCCGTTTCAATTGTGGACCGGCGCCGAGGGGGAAAGGGAGGTGACTT
CGCCCGGTGGCAATAGTTCCGGGAGAATTGGCCATTGGTAAAAAGACTTCATAGGGTCACTGGAATGCTTTGTGT
TGTTTTTAAGTAGAGGTAAAATTGAGATGGGGGGCGGAGGTGACATCATGAAGTTTTTTGGAAATATCTCTTTA
TTTAAAAAATTGTTACTCCATACGGCTAAAAAAG

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FIGURE 2292

MSATNNIAQARKLVEQLRIEAGIERIKVSKAASDLMSYCEQHARNDPLLVGVPASENPFKDKKPCIL

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FIGURE 2293

CGGTGCTAGCGACACGGGAGTGGCAAACGCATCCTCTTGCCGTTCCCGGTGTTTGGGCCTTGCCTGTGACGGTGG
GAAAAGAAAATGGCCTTGCTGTGCTACAACCGGGGCTGCGGTGAGCGCTTCGATCCTGAGACCAATTCGACGAT
GCTTGACATACCACCCAGGTGTTCCGGTCTTTCACGATGCATTAAAGGGTTGGTCTTGCTGTAAGAGAAGAACA
ACTGATTTTTCTGATTCTTAAGCATTGTAGGCTGTACAAAAGGTAGACATAATAGTGAGAAGCCACCTGAGCCA
GTCAAACCTGAAGTCAAGACTACTGAGAAGAAGGAGCTATGTGAATTAACCCAAATTCAGGAACACATCATT
CAAGCCCCTAAGCCAGTAGAAGCAATAAAAAGACCAAGCCCAGATGAACCAATGACAAATTTGGAATTAATAA
TCTGCCTCCCTAAAACAAGCACTTGATAAACTTAACTGTGCATCAGGGAATGAAGAAAATAAGAAAGAAGAAGAC
AATGATGAAATTAAGATTGGGACCTCATGTAAGAATGGAGGGTGTTCAAAGACATACCAGGCTCTAGAGAGTCTA
GAAGAAGTCTGTGTATATCATTCTGGAGTACCTATTTTCCATGAGGGGATGAAATACTGGAGCTGTTGTAGAAGA
AAAACCTCTGATTTTAATACATTCTTAGCCCAAGAGGGCTGTACAAAAGGGAACACATGTGGACTAAAAAGAT
GCTGGGAAAAAGTTGTTCCATGTAGACATGACTTGCATCAGACTGGAGGTGAAGTTACCATTTTCAGTATATGCT
AAAACTCACTTCCAGAACTTAGCCGAGTAGAAGCAATAGCACATTGTTAAATGTCATTATTGTATTTGAAGGA
GAGAAGGAATTTGATCAAAATGTGAAATTATGGGGTGTGATTGATGTAAAGCGAAGTTATGTAACATGACTGCA
ACAAAGATTGAAATCCTATGAGAAAAGCTGAACCGATGCAGTGGGCAAGCCTTGAAGTGCCTGCAGCTAAAAAG
CAGGAAAAACAAAAGATGACACAACAGATTGAGTGGGAGATGGAAGGAAGGCTATTACATTATTTCCGAATTTT
TAATACTGTGTGAAGTGGTGGCTTGCTGTGTAATCTTTTGTGTTTGTGTTGTGTTACTGAATGTGGCATTTCAG
GGTTAACATTAGGTTCTTAAAGCCAAAGTCAGTTTGTCTTTTGTGCCTCTCATCTTTCTTTGTGTTATGTAA
GATTGATTATTCATTTCTCCCTACTGGTAGGAACCATAGTTGTGTCCTATACTTGAAGAGGCTGGAAAGTAGCCC
ATAACCATAATTGCAGTATTTCTTTGTATTTCTCTGTAAAGCAAAGAAATATTAAGGAACATTTTTTTATGTTT
TTGTATTATTCATAATTAGTAAAGCAAGATGAAATGTCAAATTTTAATCAGTTTTTTCATGGATTGTGTTCTT
ACAGTACTTGAAAATATTTAAGGAAGAGATGAAGCTCTGCAGTTTTTCTATGTGGGATGATTACTTTTTTAAGG
AGGATTAATTCTGAGGTAGTATAGTAACTAAAGGGGAATATATGAATTGTTTAACAAATTAGAATTTGTTTACAA
CTACTTGAATTTTAAATTATGTCAAACTTACATTACTTGCCAAGCAGTATGATGTTATAGGAAACATAAATAA
GATTACAGAGGTATCAATTTGGTTAAAATTCACCATTTTATAAGACTAAGCAATAATCTTAACAACCTCTTTCTT
GAATATTTAAATGTGTTTGTATGGTGTATGACTAATTGTTACTGATTTAGAGACTAAGCCCTCTTAAACCTTT
AGTTAAATATAAAAAGAAATTATATATATCTTGCTCCCTGATGGAAAACATATAAAATTGTAGACTTAAAGG
TTTGTGGAATACATTAGGATATCAGAAAACATAATATATGGAGTTGCTTTATGACTATTACATGTAAATAAAA
ATAGCTTAATTGTTAAAAA

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FIGURE 2294

MALLCYNRGCGQRFDPETNSDDACTYHPGVPVFHDALKGWSCCKRRTTDFSDFLSIVGCTKGRHNSEKPPPEPVKP
EVKTTEKKELCELKPKFQEHIIQAPKPVEAIKRPSDEPMTNLELKISASLKQALDKLKLSSGNEENKKEEDNDE
IKIGTSCKNGGCSKTYQGLSLEEVVCVYHSGVPIFHEGMKYWSCRRKTSDFNTFLAQEGCTKGKHMWTKKDAGK
KVVPCRHDLDHQIGGEVTISVYAKNSLPELSRVEANSTLLNVIIVFEGEKEFDQNVKLWGVIDVKRSYVTMTATKI
EITMRKAEPMQWASLELPAACKQEKQKDDTTD

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FIGURE 2295A

CCCAGGCCGGCTCTGGCCTCCTGACCCAGACAGCGCAGGGCGCGAGGGATCGCGCGGCCGAGCCCGGGTCGCGCC
GCTCCCAGCATCGGGGCCGCTAGCCAAGAGTTCGAGGCCCTCCCGATCCGGATGTGATGAAAAAGAGCAACAGAG
GGAGAAGTGTTCAGGATTGTAGGAGTGAAGAGGGGAAAGAGAGGCAGAGAGGGGGAAGGCCCCCTCGCAGGGG
AGCCGGCTGGAGTGAGCTGGCTGGAAAGAGGGGGCGGAGTGC GCGGAGTCAGAGCCGCCACCGCTGCCGCAGTTG
CCGCCACTGCGGCGTCTGGGCTGAGCCGGAGGGAGGCGGGAGGACGCGCAGGGGCGGCCGCCGCTCGTCAGGC
CACCGGGGCGAAAATGCGGCGCTGCCGGAGGCTCGCTAACTTTCCGGGGCGGAAGAGGAGGAGGAGGAGGAGGA
AGGGGCTTGAGCGACTACGGGGGATGCGGAGAAGCAGTCAGTTCCTGACCCAGCACCTCACAGCCCTTCCT
CCGTGCGCCCTGCCGGGCGGCGAGCTAGGCGGCAGCGGCGCGGCGCGGGCTCGGCGGAGCGGCCCATGTCCGGCG
CGGGCGAAGCCCTCGCTCCCGGGCCCGTGGGGCCGAGCGCGTGGCCGAGGCGGGCGGCGGCCAGCTGGGCTCCA
CAGCCCAGGGAATAATGTATAAGACAATACTGAGAAAGATATACTCAAGCTACCAATAGCCACTTCACACATG
GAGAGATGCAAGACCAGTCCATTTGGGGAATCCTTCGGATGGTGAATCATTAGAACCCAACCTCAGCGCTTGC
CTCAGCTTCAGACTTCAGCACAGGTCCAAAGTGGTGAGGAAATAGGCAAGATAAAGAACGGCCACACAGGTCTGA
GCAATGGAAATGGAATTCACCACGGGGCCAAACACGGATCCGCAGATAATCGCAAACCTTTCAGCACCTGTTTCTC
AAAAATGCATAGAAAAATTCAGTCCAGCTTGTCTGTAAACAGCGATATCAGTAAGAAGAGCAAAGTAAATGCTG
TCTTTCCCAAAGACAGGCTCTTCACCTGAAGATTGTTGTGTCCACTGTATCCTGGCTTGCTTGTCTGCGAAT
TCCTGACCCCTTTGCAACATTGTCTGGGACAAGCGTCATGTGGCATCTGCACCTCAGAAGCCTGCTGCTGTGCT
GTGGTGACGAGATGGGGGATGATTGTAAGTGCCTTTGTATATGGACTGTGGCATCATGGATGCCTGTTGTGAAT
CATCAGACTGCTTGGAATCTGTATGGAATGCTGTGGAATTTGTTTCCTTCATAAATATTTATCTTTGTGTTGT
GTTAAACTGGAGAGTGTTTAAATTTCTTTTGGGGGAAGAAAAGCACATTGTAAGATTCTCATGAAACAAC
ATGGAATTTGCACTGTTAACTCATTATTGTAAGTAATCTCTGAAAGCCTTTTACTTTAACCAATCTACATGGT
TTAATATGTGAAATTTTAACTACTTTAACTAGTTTTATAAATTTCTTAATATGTTACAATAACTTAGGGACATTT
TGACACCCCCCTTCCCAATGTTAAATGCCCTTCTCCTTTTACCGATATTTCTGTTTCTTTAACCGTTCTCAGG
AGCACTTTGCTCCAAATATATTTTTCAGTGTGATTTAAACGAGGCGAGTTATTTTGATATGTATCTATTCA
TGATTGAAAGGAAGCAGTCTTGCCAGGCACGGTGGCTTACACCTGTAACCTGGCATTTTGGGAGGCCAAGGTG
GGCAGATTGCCTGAGCTCAGGAGTTCGAGACCAGCCAGGGCAACATGGTGAAACCCATCTCTACTAAATACAA
AAAGTTAGCTGGGCTTGCGGCTGTGCGCTGTAGTCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATTGCTTGAA
CCCAGAGGCGGAAGTTGCAGTGAGCCGAGATTGTGCCACTGAACTCCAACCTGCACTCCAGCCTGGGCAACAGA
GCGAGACTCCATCTCTAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA
TATTTTAAAGAACTTTAGGAAACAAACCCACATAATAGTTGGGAACCACTGTTGATCTCTCTCCCTTACCTTC
TCCACTGTTCAACAGACTCTGAATGCCGACTGTGTGGACTCTCTCTCAGACTGTGGGACAGATAACAATCC
ACTCCTGTCCACAGGAACATGAGATTTAGCAGACTAAGGAGATCTGTAAAGAATGAACCATACCACAAGGCATAC
TGAAGTGAGGATTATAAGAGAAATAAATCAAAATGCTGTTGGAATATGCAGAGAATTGCTACCAGAATATTAG
TAAGGTTTCAGGGAGAATGTGGCATTGAGGACTCTCTAGAATGAGTGATTCACCTGCTATTTAAATGAATTAT
TTAGATTTTTGACAAAGATTTAGGTGGACACCCTAACTGTGTGTGCCTTTAACAGTTAAAGAACAGTGCCTT
CAGCATACTTTTTATTAGTTGTAGGAATACAGCTTTTTGAAAAGCTATAAAGTTAAATTAATAAATAAATATG
CATTTTCTTACACATAATTTAAATGTTATCATACTTTTTTGATGAAAACATAATGCCTTAGTAAATATAGCTCTAT
TTAATAAAGAAGATTGAGTACTCTGACACATTTCAATTAATAGGAAATTTTAATATTTAAATCCAGTGTTTC
TGAGTTATTGAAAGGCTTTCTTTTATTTTGAGAGCTTTAGGTCTTTTGGGATGAGAACATTTTAGTTGTTTAGT
TTGTTTCTTAAGCAGTGCTATTTTGTAAACACAGATAAATGGAACCATTCCTTTCAATGCAGAAGAAATCTA
GATATCCCTACTGTGACCAATTTCTGTATTACGATTTTATGTTAAATTAATAAATAAATAAATAAATAAATAA
TCCTTAAGTGTAAGAAATCAGTCAATTACAAGAGTAATTGTATAGTTATTGAGACCTATAGTGTGTGGCTTAGA
TGAAAGGGAGAGTAAATTTTCATACCATGCTCTCTCTACTCAGTTTGATCTCTCTAAATTTAGTTTGGTTTG
ATTTAATATAATTTCTAGTAGAAATTTTGAAAGTATGCTTTGGGATTAATAATATTTTAAATTTTCTGGCTGA
ATATCAAATTGATAGTAACAACAGAAGCATAATTTAGGAAGGCTTCGCAAACCTAGCCTTTTAAAGAGAGGTTT
TTAACCTGAAGCATGAGAATATATCACCTGTGGTTTTTCCCTTTGAGATGAAACGTAGTTTCTAGTTATATCATT
CTTAAAGGGCTTAAAAAGAAAAAATTAGCAAACCTTTGAATCTTTCTTTTATGCTATTTACACATACATACAC
ACATACAAAACCTTTAAATTTTGGGATCTGAATAAATCTGGTAAACAGCTGCTTCATTTTCTCTCTAAAG
AACTTAATTCATTTGTACATAAAATATAAGGAAATCTTTATACTATTTTACAGTAACCACAATCTAAATATTTA

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FIGURE 2295B

CATATACCCAAAATTAACCTTATGCTCATATATTAGGATGTGAGAATATCATCTGTTTATGGACACATGAAACCTC
CTAATGACCTGGAATTGTTAGAATATTTGACTTTTTATATGCAAAGTTTTCAACCAAGTGGTTTGTCTAATATT
TAAACATGTACTGGCACAATTTGTGATGAAAATATTAGCACATTTGCAATAATGTTTCTCCATAACAGAGAATGT
TAATGGATACCAGAATTTTATTTTTGTATTTATGTTTCATAGTACTTTTCCTCTTGTCTACTCCAGACAGTTATTC
CATAAAGCATTGTGATAATTAAAAGGAAAACAGAAAAAGGAAAAGTAGGCAAATGTGAAAATAGTTTCAATATAT
CTTATGATTTCCTAATGTAAAATGTTTTGTTGAAGTATATGGCTATCATGACTAAGTGCTAGAATTTATAGTTAC
AGGCGGTGTCCTTTTAAATGTGGAAAGGCTTTTAAATATTTTAAACTGGACCTGTATTATCCTGAATACACTA
TTTTGAAAATTTTAAAGAAAAA

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FIGURE 2296

VRGVRAATAAAVAATAASGLSRREAGGRAGAAA VVRPPGRKCGRCRRLANFPGRKRRRRRRKGLGATTGGCGEA
VSSLHPAPHSPSSVRPAGRRARRQRRGAGSAERPMSGAGEALAPGPVGPQRVAEAGGGQLGSTAQGKCDKDNTK
DITQATNSHFTHGEMQDQSIWGNPSDGE LIRTQPQRLPQLQTS AQVPSGEEIGKIKNGHTGLSNGNGIHHGAKHG
SADNRKLSAPVSQKMRKIQSSLSVNSDISKSKVNAVFSQKTGSSPEDCCVHCILACLFCEFLTLCNIVLGQAS
CGICTSEACCCCGDEMGGDCNCPDMDCGIMDACCESSDCLEICMECCGICFPS

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FIGURE 2297A

ACTGCCGTGCCGGACCCCCGAGCCGGAGCCGAGCGCGCCGAGGCCGGGGCCATGGAGAAAGCGCGGCCGCTGTGG
GCCAACTCGCTACAGTTTCGTGTTTCGCTGCATCTCGTACGCCGTGGGCTGGGCAACGTGTGGCGATTCCCGTAC
CTGTGCCAGATGTACGGCGGAGGTAGTTTCTGGTCCCCCTACATCATCATGCTTATCGTGGAGGGAATGCCGCTC
TTGTACCTGGAACCTGGCTGTGGGGCAGCGCATGCGGCAGGGCAGCATCGGCGCTGGAGGACCATCAGCCGTAC
CTCAGTGGTGTGCGGGTCGCCAGCGTGGTGGTCTCTTTCTCTCCATGTACTACAACGTATCAACGCCCTGG
GCCTTCTGGTACCTCTTCCACTCCTTCCAGGATCCCCCTGCCGTGGTCTGTCTGCCACTGAATGGTAACCACAG
GGCTACGATGAGGAGTGCAGAAAGCGTCTCCACACAGTACTTCTGGTACAGGAAAACCTCAATATCTCGCG
TCCCTCCAGGAGAACGGGGGTGTGCAGTGGGAGCCGGCGCTGTGCCTCCTCTGGCCTGGCTGGTGGTGTACCTG
TGCATCCTGCGTGGCACCGAGTCCACTGGCAAGGTGGTGTATTTCACGGCGTCACTGCCCTATTGCGTGTCTATC
ATCTACCTCATCAGGGGCCCTACGCTCCACGGAGCCACCAATGGCCTCATGTACATGTTCACTCCCAAGATAGAG
CAGCTGGCCAACCCCAAGGCTGGATCAATGCAGCCACCAGATCTTCTTCTCACTTGGCTGGGCTTCGGCAGC
CTGATCGCTTCGCCAGCTACAATGAGCCATCCAACAATGCCAGAAGCAGCCATCATCGTGTCCCTCATCAAC
AGCTTCACCTCCATATTTGCCAGCATTGTACCTTCTCCATCTATGGCTTCAAGGCCACCTCAATTATGAAAAC
TGCTTGAAGAAGGTGAGTCTGCTGCTGACCAACACTTTTGACCTTGAAGATGGCTTTTTGACAGCCAGCAACCTG
GAGCAGGTGAAGGGCTACCTGCATCTGCCTACCCAAGCAAATACAGCGAGATGTTCCCGCAAATCAAAAACCTGC
AGCTTGGAAATCGGAGCTAGACACGGCCGTCCAGGGCACTGGCCTGGCATTCTCGTCTACACAGAGGCCATTAAA
AACATGGAGGTGTCCAGCTGTGGTCCGTGCTCTACTTCTCATGCTGCTGATGCTGGGCATTGGGAGCATGCTG
GGGAACACAGCGGCCATCCTACCCCTCTGACAGACAGCAAGATCATCTCCAGCCACCTGCCCAAGGAGGCCATC
TCAGGTCTGGTGTGCCTTGTCAACTGTGCCATTGGCATGGTGTTCACGATGGAGGCTGGGAACACTGGTTTGAC
ATATTCAACGACTACGCGGCCACACTGTCCCTGCTGCTCATCGTGTGGTGGAGACGATTGCCGTGTGTACCTG
TACGGGCTGAGGAGATTTGAAAGTGACCTTAAGGCCATGACCGGCCGAGCTGTGAGCTGGTACTGGAAGGTGATG
TGGGCTGGCGTAAGCCCACTGCTGATTGTGAGCTCTTTGTCTTCTACCTGAGCGACTACATCCTCACGGGGACC
CTGAAGTATCAAGCCTGGGACGCTCCAGGGCCAGCTCGTGACCAAAAGATTACCGGCCCTATGCACTGGCTGTC
ATCGGGCTGCTTGTGGCCTCCTCCACCATGTGCATCCCCCTGGCGGCCCTGGGGACTTTTGTTCAGCGTTCGCCCTC
AAGAGGGGAGACGCAGACCCCGTGGCCTTGAGATGTGGGCTTCCAGCCGCTCACGGTTTTACAGATACTATTTAC
AGCGGAAACTCCTCGGCTGCTTTTTCAAATGCTTAAGCCAGGAGTGCTCAGCCCATCAACTTCTGAGTGTCTA
AAGAAGATGAGGAAGGTGTGCAGGAAGAAAATCCCTTGGGAGAACGCACACCTCCCGTGGTGGCTGTTCCCTCC
CTGTACCTGCCCTCCTCATCATGGAAGGGGTGGGCTATGAAAGCCGGTCTCAAAGATAACTGCATCCTTCATT
CAGGAAAGCCCTAGAATTAGGGCACATTGCAAATGAAATATGACTATAATTCTTATGGGACCAAAATTAAGCAA
TTTTTGTTTTTGGCTGAAGAGACACCAAAATATTAGAGGACAAATATTTTAGATCCATTTAAGGAGTTTTGAAG
TGCTTAAGATGACCTATTTGTGAGTGGTGCAAAATTAATTCTCTTTTTTGGAGTTGTAGTGAATATGCAATTT
CTGTGTTCCCTTCCACCCCTTTAAATCTTAGGATGACAAGTTATAAAGAAAGAAGATCTTTGTCTGGGACCCCCA
AAGGGATCCTTTCTTAAGGTCTCTGACAGTGGGTCCAGGACCAGACCTCTCTACAAAAAATTGCCCAACTACA
GTTTGCAACCCCAACACATTAGAAGTCTGTGCAGACATCCCTCCGTGGTGTGTGCTTGGTGCATTGGAAAAG
GAGTCAGGAGCCACTGTGAGGTGAGAATGAAAGTGGATCTCAGCTGGGCACGGTGGCTCACGCCGTGAATCCTAG
CACCTTGGGGGTCAAGGTGGGTGGATCACTTGAGGTGAGGAGTTTGGGCCAGCCTGGCCAACATGGCGAAACCC
CATTTCTACTAAAAATACAAAAAATTAGCTGGGAGTGGTGGCATAGGCCTGTAATCCAGCTACTCTGGCTGCT
GAGGCACAAGAATCATTTGAACCTAGGAGGTGGCGGTGTGTGTGAGCCAAGATCATGCCACTCCACTCCAGTCTG
GGGACAGAGCAAGACTCTGACTCAAAAAAAAAAAAAAGTGGCTCTGACTTTCCCATAGGCTTAATATTACATTT
GGACATCGTGGCCAACTCTATCAAGACCACAAATACCACTTACAATTAATTTTAAATTATTATCTGTACATAGT
TTTCTAAATGTATATAATTCAAACAGAGCATCTTGTAAGTGAAGACACACCATATCTATGATATCGCATTAGTC
CATGTGGGGAAAAGAAAGATCAGATTGTTACTGTGTCTGTGTAGAAAAGGAAGACATAAGAACTCCATTTTGAT
CTGTACTAAGAAAATTTGTTCTGCTTTGAGATGTTGTGTAGCCTATAACTTTAGCCCCAACTCTGTGCTCACAGA
AACATGCGCTGTAATGAATCAAAGTTTAATGGATTTAGGGCTGTGCAGGATGTGCCCTGTTAACAATATGTTTGC
AGGCTGTATGCTTGGTAGAAGTCATCGCCATTCTCCATTCTCGATTAAACCAGGGACACAATGCACAGCAGAAAGC
TGCAGGGACCTCTGCCCAAGAAAGCCTGGGTATTGTCCAAGGTTTCCCCCACTGAGACAGCCTGAGATATGGC
CTCATGGGAAGGGAAGACCTGACTGTCCCCAGCCGACACCTGTAAAGGGTCGGTGTGAGGAGGAATAGTGA
AGGAGGGAGGCCTCTTTGCAGTTGAGATAAGAGGAAGGCTTCTGTCTCTGCTTGTCCCTGGTAATGGAATGTCT

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FIGURE 2297B

CGGTGTAAAGCTGACCATTCCATTTCGTTCTATTCTGAGATAGGAGAAAACCGCCCTGTGGCTGGAGGTGAGATA
TGCTGGCAGCAATACTGCTCTGTTACTCCTTGCTACACTGAGATGTTGGGTAAAGAGAAACATAAACTAGCCT
ACGTGCACATCTGGGCACAGTACCTTTCCTTGAACCTATTTCGTGATACAGATTCCCTTGCTCACATGTTTCCCTG
CTGACCTTCTTCCCACCTGTTGCCCTGCTACACTCCCCTCGCTAAGACAGTAAAAATAATGATCAATAAAATACTG
AGGGAACTCAGAGGCCAGCGCCGGTGC GGCTCCTCCACATGCTGAGCGCCGGTCTGGGCCCACTGTTCTTTCTC
TATACTTTGTCTCTGTGTCTTATTTCTTTCTCAAAAAAATTTTCTTTTAACTGCAATAAAGTAGGTCGTT
ACCCCTAAAGTGAGCGAGTCCCTTCCTGCTCTAACGTCCAGTGCTTCCTTGAGATCATGGAATTCTGGAGAGTTT
CTGTGGATATATTTGCACAGATATCTTTGAAGACACAAACACTCACCTGGGACGTTGGCCGGAGATGTCTTTTA
TTTTTGCTGTGTAATAATCTCTTACAGCAAAAATAGGCTTTAGAAAGGTCTTCTACTGTCTTCAGCAACCATCTC
ATCTTCCAGCTTCACCTGATTGTCCAGTTATCATACTTTGACTTTCAAATGTATGAACCAGCATGTACCCCATG
GATTTAATCTTATCTACCCCGTGGATTCAATCTTCTTATCAGAAGGTTCTTTATGTCAAAAAACCTGCTGTCAA
GGCTTGAAGAGCCGGCACACTCAATGGCAAACACAGCACCGAGTCTGCTCTGAATCCTGGAGGATCTGGCCCTCC
TCTCAACCCCACTCACAGTCACCGTCTTACAACCTCAGGGCCACCTGGGATCAGTCATCAGTCAGGGTGC GTAAG
CCTTGAATACCAGGTAGCCGCAGGAGTAAAAGATAAATGTCTTAGATCATTACCTTATTCAGTGTCCCCACCTT
GCAGCGCATTCCAACCACCTGGGAGCATTTAAACTCCAGATGCCACACCCACACCCCTGGGGCCACCCATCAGAC
CTTCTGGAAGCAAGACCTGGGCCTCCATGGCCCCAAAACTCCCTAGGTGATCCGATGTGCAGCCAAATTTGAGA
GGCCCCATTTAAAAAAGAAAGAACATGGGTGGTACATTGAGGAGTATTTACATTTTATAAAATGACTTAAAAATT
TGAAGGCATTTTGTAGCATTTCGAATTATATGGAAGAGTTACTTCTACGGAATAGTTTTTGTCTCATGGAAC TCA
ACAGATGAAGCACCCTGTTACAGAATAATGTGCTCCAGATGAAAATGTCTCGTTTCTGTGAATTTTCATGAAGAG
CAGAACATTTCTCAAGAATCCTCTTGAGCCAGTAATCAATCCTGTCTCAAAAAATGTTCTTTGCCATTTCTTAGA
TACTGCACAAAAGTGGCCATGTGACATTTGTCCACCCACCTCCAATAAGCTGGAGCGACAAAGGGACATTCCA
TCCCTGTACCCCTTAGTGGTAGCCATGACACGATGGCCAGATCATGGACTCCGGAAAGCTTTCTGTTTTTACTGGA
AACATAGCAAACCTTGATTTAGCTCCAAGAAATTGAGTAGGGAAATATTTGTTTTTTAGCAATTGTCATAGTAAA
TAAACTCTAAGCAAATGTGTGTAC

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FIGURE 2298

MEKARPLWANSLQFVFACISYAVGLGNVWRFPYLCQMYGGGSFLVPYIIMLIVEGMPLLYLELAVGQMRQGSIG
AWRTISPYLSGVGVASVVVSFFLSMYYNVINAWAFWYLFHSFQDPLPWSVCPLNGNHTGYDEECEKASSTQYFWY
RKTNLISPSLQENGGVQWEPALCLLLAWLVVYLCILRGTESTGKVVYFTASLPYCVLIYYLIRGLTLHGATNGLM
YMFTPKIEQLANPKAWINAATQIFFSLGLGFGSLIAFASYNEPSNNCQKHAIIVSLINSFTSIFASIVTFSIYGF
KATFNYENCLKKVSLLLTNTFDLEDGFLTASNLEQVKGYLASAYPSKYSEMFPQIKNCSLESELDTAVQGTGLAF
IVYTEAIKNMEVSQWLSVLYFFMLLMLGIGSMLGNTAAILTPLTDSKIISSHLPKEAISGLVCLVNCAIGMVFTM
EAGNYWFDIFNDYAATLSLLLIVLVETIAVCYVYGLRRFESDLKAMTGRAVSWYWKVMWAGVSPLLIVSLFV FYL
SDYILTGTLKYQAWDASQGQLVTKDYPAYALAVIGLLVASSTMCIPLAALGTFVQRRKRGDADPVA

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FIGURE 2299

GAGAGATGCTGCCGCTGCTGCTGCCGCTGCCCTGCTGTGGGCAGGGCCCTCGCTCAGGATGCAAGATTCCGGCT
GGAGATGCCAGAGTCCGTGACGGTGCAGGAGGGTCTGTGCATCTTTGTGCACTGTTCCGGTCTTCTACCTCGAGTA
TGGCTGGAAAGATTCTACCCCTGCTTATGGCCACTGGTTCCGGGAAAGGGTCAGTGTAGACCAGGAGACTCCATG
GCCACAAACAACCTCAACTCAAAAAGTGCAGAAGGAGACCCAGGGCCGATTCCACCTCCTCGGTGATCCCTCAAGG
AACAACTGCTCCCTGAGCATCAGAGACGCCAGGAGGAGGGACAACGGTTCATACTTCTTTTGGGTGGCGAGAAGA
AGAACAAAATTTAGTTACAAATATTCCCCGCTCTCTGTGTATGTGACAGCCCTGACCCACAGGCCCGACATCCTC
ATCCCGGAGTTCTTAAAGTCTGGCCATCCAGCAACCTGACCTGCTCTGTGCCCTGGGTCTGTGAGCAGGGAACA
CCCCCATCTTCTCCTGGATGTCAGCTGCCCCACCTCCCTGGGCCCCAGGACCTCCACTCCTCAGAGCTCAGG
ATCATCCACGGCCTCAGGACCACGGCACCAACCTCATCTGTCAGGTGACGTCCCCGGAGCTGGTGTGACCACG
GAGAGAACCATCCAGCTCAGTGTCTCCTGGAAATCAGGAACCGTGGAGGAGGTGGTTGTTTTGGCCGTGGGGTA
GTGGCTGTGAAGATCCTGCTTCTCTGCCTTTGCCTCATCATCCTCAGTTTCCACAAGAAGAAGGCGGTGAGGGCA
GTGGAGGTTGAGGAGAATGTATATGCTGTGTCATGGGTTAATCTCTCAGGCCTCCAGACTGTACTTCCAGATGTCTC
CTCATCCAGTTCTCCACAGTCTGAATGGCCATGTTTCTTCTCATTGCTGGAGAATGAAGTGCAAATGCCACTG
CCTGGACTGAAGGCCTTTACGATCTGTCTTCTGCTGGACTCTGCTCCTGATCCCCCTTCTCCTTGCATCACCCG
AAGTCTCCCTACACCCACCAGGCCAAGCCCTCTGTGATTCTGAGACTTTGCATGTGTAGTTACTTCTCCTGAAAT
GGCCTTCCCTCCCATTCCTGCCAATCCAGGTCTTATCATCCTTCAGGTTGTCTTAAATGTATCCAGGTGTGTG
TATTTTTATGTAATCCTTGTATGATATTAAGCGGAGATGTGGCATTGTTCATTAATTTGTAGACATATTCAGTA
ACCATACTGAATACATATAATGACTATGTGCCAGCATTTCCGTATGTGCAAGAAGTTCATCAATAGATATAGACT
CAAAGAGCTCTGTCATCAAGCTGTTGTTCTGAAGAGCAGAAGGATAC

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FIGURE 2300

CAAGCTTATGCATGCGGCCGCTGAATGGAGGCCAACATGCCGAAGCGGAAGGAGCCCGGCAGGTCTCTCCGCATC
AAAGTCATCTCCATGGGCAACGCCGAAGTGGGGAAAAGCTGTATTATAAAGCGATACTGTGAGAAAAGATTTCGTG
TCTAAATACCTGGCAACAATTGGAATTGACTATGGAGTCACAAAGGTACACGTCAGAGACAGAGAAATCAAAGTT
AACATCTTTGATATGGCTGGACATCCCTTCTTCTATGAGGTTTGAATGAGTTTTACAAGGACACACAGGGTGTG
ATACTGGTCTATGATGTTGGGCAGAAAGACTCCTTTGACGCCCTTGATGCGTGGCTGGCAGAAATGAAGCAAGAG
CTTGGACCTCATGGAACATGGAATAATTATATTTGTAGTTTGTGCCAACAAGATTGATTGTACCAAACATCGC
TGTGTAGATGAAAGTGAAGGACGTCTTTGGGCTGAAAGCAAAGGGTTCCTGTACTTTGAACTTCAGCACAACT
GGAGAAGGCATTAATGAGATGTTCCAGACCTTTTATATATCCATAGTTGATTTATGTGAAAATGGCGGGAACGC
CCTACCACCAATAGCAGTGCTAGTTTACCAAAGAACAAGCAGATGCCATTTCGCAGAATTCGAAATAGTAAAGAC
AGTTGGGACATGCTGGGAGTCAAACCTGGGGCCTCAAGGGATGAAGTCAATAAAGCGTATCGGAACTTGCTGTG
CTTCTTCACCCTGACAAATGTGTAGCACCTGGCAGTGAAGATGCCTTCAAAGCAGTTGTGAATGCTCGGACAGCC
CTCCTGAAAAACATCAAGTAGAAAGTACAGAAAAAGCCACATGTGGGACTCAAATGCAACAGACTTTCCCTAG
AGGTGAAATAACCAACGTGGAGTTTTCTTCCAGAATCTACTGCTCTTTTCATTTCATGTGTTGTCATTTGTAT
ATCAGTAATTGAGGTACCCATTTTCATAGACATTTTACTGAGAAATGACCTGCATTTGTATGAAGTGAAGTGAAGC
TCACACCCTGTACTTCATTTCATATTTCTAGATAATTCTGAATTTTTTCTCATTTCGTGAGCTCTGTAATTATAG
TATCACTTAGACATTTCACTTGGGGAATCCACAAGGTTCTTGGAGGGAGGGAAGAGAGGACAAGAGGACCCCTT
CACTTTTTCTTTTTTACGGAATTCATCATCAGAGAAGAAAATAACAAAAATGGAAGCAAACAACATCAGAACCCC
TGTAAGTTTGGTGTGACCTTACAGACAAGTTGCTGCTTTTACAATGAGTTCCTTAGGTGGTATTTTAACCCATCG
ATCTATAATGATGACTCTTGGCAGCCCTTTGGGAGTTTGTAAAATGAGGTGATACAGTTCTGAATTGAGCATTCC
TTTATGATATTCATCTGTTCTCTTCTGCAGCCACCAGTGGGAGAGACAAGCCAGTCTTAAGAGAAAAGGTGGT
GGCAGCCACAAATTCTAGGTACACTGGCTGCTGCCTATCCTGTCCCTGGATCTGAGGCCTTTCCCTTGCCATAGA
AATGGTTGCTGGTAGCAGTAGAGAGCACTGTGCACCTGGGAATGAGGAATCAGGCCCAAGACAGAAGTACTTGG
AGGAGCCAGCTGCAGTAGTATCCGCCTGTAGTCCCAGCTACTCAGGAGGCTGAGACAGGAGGATTGCTTAAGCCC
AGGAGCTCAAGTCCCACCTGGGCAACATAGTAAGATCTTGTCTCTTAAAAAAAAAAAAAAAAA

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FIGURE 2301

MEANMPKRKEPGRSLRIKVISMGNAEVGKSCI IKRYCEKRFVSKYLATIGIDYGVTKVHVRDREIKVNIFDMAGH
PFFYEVRENFYKDTQGVILVYDVGQKDSFDALDAWLAEMKQELGPHGNMENI IFVVCANKIDCTKHRCVDESEGR
LWAESKGFLYFETSAQTGEGINEMFQTFYISIVDLCENGKKRPTTNSSASFTKEQADAIRRIRNSKDSWMLGVK
PGASRDEVNKAYRKLAVLLHPDKCVAPGSEDAFKAVVNARTALLKNIK

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FIGURE 2302A

ATAGTCACCAGAAGCTGGAAGAGTCAAAGGACACATTCTCCCTCAAGCCCCAGTGGGAGCACGGCCAGCTGGA
TTTTGGACTTCTGGCCTCCAGAACTAGACAGGGCCTCAGGTGTCAACCAGGGTGGAAATACAGTGGTGTGATCAT
AGCTCACTGCAGCCTGGAATTCCTGGGCTCAAGCAACCTGCCACCTCAGCCTTCCAAGTAGCTAGGACTACAGA
ACATCCATGATAGCAGTCTTCTGTAAATCGAACTTTTCAAGAATTCTCTGAAGGAACCAAGTAGGATATTCTTAC
ATCATGACTTAATGTGAATGCAAGAACAAGAAATAGGTTTTATCTCTAAATATAATGAAGGGCTGTGTGTAACA
CTGACCCTGTCTCAATTCTAACAAGCATTTTAGACATGAGTTTACATCGGCAAATGGGTTGAGATCGAGATCTTC
AGTCTCTGCTTCATCTGTGAGCTTGCCTTCAGTCAAAAAGGCACCCAAAAAAGAAGAAATTTCAATAGGCTCCC
TGTTTTCGGAGGAAAAAGATAACAAACGTAAATCAAGGGAGCTAAATGGCGGGTGGATGGAATTGCAAGTATTG
AAAGTATACATTCTGAAATGTGTACTGATAAGAACTCCATTTTCTCTACAAATACCTCTCTGACAATGGATTAA
CTTCCATCAGCAACAAATGGAGACTTCATAGAGTGCCTTTGTGCCTTTTGGCGCATCTAAAGACAGATTTTC
CTGATATAATGACTTGTCTACAGATCTGTGTGGATTGCTTACGACAATATTTAAGGATAGAAATCTCTGAAA
GCAGAGTTAATATTAGTTGCCAGAAATGTACTGAGCGGTTAATCCCCATGATATTGCTTGATATTAAGTGATG
ATGCTTGATGGAAAAATACGAAGAATTTATGCTTAGACGGTGGCTTGTGTCAGATCCTGATTGTAGGTGGTGTG
CAGCTCCAGACTGTGGATATGCTGTGATAGCATTGGATGTGCCAGCTGTCCAAATTAACCTGTGGGCGAGAGG
GCTGTGGAACAGAGTTTTGCTACCACTGTAAACAGATTTGGCACCACAACAGACCTGTGATGCTGCTCGACAAG
AGAGAGCCCAGAGCTTACGTTTGAGAACTATACGTTCTTCATCCATTAGTTATAGTCAAGAGTCTGGAGCAGCAG
CTGATGATATAAAGCCATGTCCACGATGTGCTGCTTATATAATAAAGATGAATGATGGGAGCTGCAATCACATGA
CATGTGCTGTTTGTGGTTGTGAGTTTTGTGGTTGTGTATGAAAGAAATCTCAGATTTGCATTATCTAAGTCCAT
CAGGATGTACTTTTTGGGGGAAGAAACCCTGGAGCCGAAAGAAGAAATATTGTGGCAACTGGGAACACTGGTTG
GTGCTCCTGTGGAATCGCTTAAATAGCTGGCATTGCTATTCCTGCAATGATTATTGGCATTCTGTGTATGTGG
GCCGCAAGATTACAAATCGCTATGAAGGCAAGGATGTTTCAAAGCACAAACGGAATTTGGCCATAGCAGGTGGTG
TAACGTTGTCTGTAATCGTGTCTCCAGTAGTAGCTGCAGTGACTGTAGGTATCGGTGTTCTATTATGTTAGCTT
ATGICTATGGCGTAGTTCCAATTTCTCTTTGTGCGAAGCGGAGGTTGTGGAGTCTCAGCAGGCAATGGAAAAGGAG
TTAGGATTGAATTTGATGATGAAAATGATATAAATGTTGGTGGAACATAACACAGCTGTAGACACAACATCAGTAG
CAGAAGCAAGACACAACCCAGCATAGGGGAGGGAAGTGTTGGTGGGCTGACTGGCAGTTTGAGTGCAAGTGGA
GCCACATGGATCGAATAGGAGCCATCCGAGACAACCTGAGTGAAACGGCCAGCACCATGGCACTAGCTGGAGCCA
GTATAACGGGGAGTCTGTCTAGGAAGTGCCATGGTAAACTGTTTAAACAGGTTGGAAGTACAAGCAGATGTACAGA
AAGAACGGTACAGTCTAAGTGGAAGATCTGGCACAGTCAGCTTGGGAACAGTTAGTGATAATGCCAGCACCAAG
CAATGGCAGGATCCATTCTGAATTCCTACATCCCATTTGGACAAAGAAGGCAACAGTATGGAGGTGCAAGTAGATA
TTGAGTCAAAGCCATCCAAATTCAGGCACAACAGTGAAGCAGTAGTGTGGATGATGGCAGTGCCACCCGAAGTT
ATGCTGGCGGTTTCATCCAGTGGCTTGCCTGAAGGTAAATCTAGTGCCACCAAGTGGTCCAAAGAAGCAACAGCAG
GGAAAAATCAAAAAGTGGTAAACTGAGGAAAAAGGGTAACATGAAGATAAATGAGACGAGAGAGGACATGGATG
CACAGTTGTTAGAACAACAAGCACGAACCTCAAGTGAATTTGAGGCTCCATCCCTCAGTGACAGTATGCCTTCTG
TAGCAGATTCTCACTCTAGTCATTTTCTGAATTTAGTTGTTCTGACCTAGAAAGCATGAAAACCTTCTTGTAGTC
ATGGTTCCAGTGATTATCACACCCGCTTTGCTACTGTAAACATTCTTCTGAGGTAGAAAATGACCGTCTGGAAA
ATTCCCACATCAGTGTAGCATTCTGTGGTTACCCAACTGCTTCTGTTGAGAGTTTCACAGTTGAATCATA
TTGCTGAAGAACATGGTAACAATGGAATAAAACCTAATGTTGATTATATTTTGGCGATGCACTAAAAGAAACAA
ATAACAACCACTCACATCAGACAATGGAATTAAGTTGCAATTCAGACTGAAATTTAGGCCATAAATGCTGCA
GAATAATTACCACTGTACAACCGTGTGTTGGAGCTGGTTGAACTACATGTGACTACTTAAGTTTCAGGTTACCAGC
AAAAGCCGGTTTCATTATCATAATGCAGATACATTTCTGTGTTGAGCAAGGATTGTGTGTATGTGGATCTT
AGTTACCAAACTATGAAGTGAAGGCTTTAAAGTGCATTATTTAAGGATAAATAATTTGAAGAGCAAAGCATGT
TTTGTGTGTTTGGCACAACATTGCTTGAAGCACATACTTAGATAGAAATTGGTCTTAATTTATATAATCAATA
TAAATACTAATGCAATTCTACAGCATTCAAATGAAGAAAACCTGAGGCTTTAGGGATAAGTGGTTAGTGATATT
TTATTGAAACCACTAAAGAGATAAGTTTAAAGAACTGCATAGGTTACTCTCAGTATATGATACTCTGTAACATT
TCTATTTATATCGGCATAAATTTCAATTTTTTCTCATATGCAATGTGGTTATATAAAGCTTAATGCAGCTCAT
TTGCTACCAATTTGGATACTTAGACACTTTGAGCAAGATTGTGGCAGTTTTTGACAACCTTTGAAATAGAAATACC
TGGTACTCTATCTTGTATTGTTGATGCCATCTTAGAGGAAAAATGTAAAGTAAGTAATTAAGCATATGACA
GCAACAAATAAGATACATAAACTACAAAATAAAGTCCCATTAGGTTATAAGTATTACAAAAATCCACCTTTCT

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FIGURE 2302B

CTAAGGGGAAGTTTGTACCCCATGATTCTTGGTGCCTTTGGGATCGACTGGGTTTTAATGGCCTAGTTATTTGA
GGATTTTGCTGTGTTGTTTTCCATGTCTTCTCTGGTCACCTTGGATTATATATAAAAATACAGGAAATAGATAAA
CATGAATGTGATTAATAATGCTGAAAAAGTATTAGCCTACCAAAGACACACTCAGGCTTTAGTGAATAACTTTAC
ATAACCTCAGTTTTTAACACATGCATATCTTCTCCAACCATGAAATCAAAGCACGGTGCAGAACTTGTACCAAGT
ACAAAAGGTCCATGTATGATTAGCATTATTTTCTTTTGCTTTTGTATGGACAATGTTTCAGCTGACATAAGCAG
AAGTTGGCCAAAATACTGCCTGTACTGTTAATTTCTGTATAATTCACCTAAATAAAAGCAGGTTAACCTCAATG
ATAGCAGTTAAAATGTTCTATCTTATGTATTTCTTTAAGTATTACCATTATGGTGCTACTGAGCGTTTTCTTTT
GGTAAAAGAAAAATGCCATGGGCTGCAGTCTTCTCCATCACTTTTCCCTACCAGGTCCATTAAATATGCTTATA
ACACTAGTGCCAGTTATTTATTTGATAATGCTTATGGTATTTGTATATTTGTTTGCATTCCAATTTTGTTTAAT
AATGAGTGTGTAAACTGCATACGTTAAATAAATGTAAATACTAATGTACTGCTGCAAAAAAAAAAAAAAAAAAAA
AAAAAA

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FIGURE 2303

MQEQEIGFISKYNEGLCVNTDPVSILTSILDMSLHRQMGSDDRLQSSASSVSLPSVKKAPKKRRISIGSLFRRKK
DNKRKSRELNGGVDGSIASIESIHSEMCTDKNSIFSTNTSSDNGLTISISKQIGDFIECPLCLRHSKDRFPDIMTC
HHRSCVDCLRQYLRIEISESRVNISCPECTERFNPHDIRLILSDDVLMEKYEEFMLRRWLADPDCRWCPAPDCG
YAVIAFGCASC PKLT CGREGCGTEFCYHCKQIWHPNQTCDAARQERAQSLRLRTIRSSSISYSQESGAAADDIKP
CPRCAAYIIKMNDGSCNHMTCAVCGCEFCWLCMKEISDLHYLSPSGCTFWGKKPWSRKKIILWQLGTLVGAPVGI
ALIAGIAIPAMIIGIPVYVGRKIHNRYEKDVSKHKRNLAAGGVTL SVIVSPVVA AVTVGIGVPIMLAYVYGVV
PISLCRSGGCGVSAGNGKGVRIEFDDENDINVGGTINTAVDTTSVAEARHNPSIGEGSVGGTLGSL SASGSHMDRI
GAIRDNLSETASTMALAGASITGSLSGSAMVNCFNRLLEVQADVQKERYSLSGESGTVSLGTVSDNASTKAMAGSI
LNSYIPLDKEGNSMEVQVDIESKPSKFRHNSGSSSVDDGSATRSYAGGSSSGLPEGKSSATKWSKEATAGKKS
GKLRKKGNMKINETREDMDAQLLEQQSTNSSEFEAPSLSDSMPSVADSHSHFSEFSCSDLESMTSCSHGSSDY
HTRFATVNILPEVENDRLENSPHQCSISVVTQTASCSEVSQNLNHIAEEHGNNGIKPNVDLYFGDALKETNNNHSH
QTMELKVAIQTEI

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FIGURE 2304

GGCTCTGGGCATCACCAGCGGCCCCAGGGAAAAAGAAAGAAATGGGAAACAGCATGAAATCCACCCCTGCGCCTG
CCGAGAGGCCCCCTGCCCAACCCGAGGGGACTGGATAGCGACTTCCTTGCCGTGCTAAGTGACTACCCGTCTCCTG
ACATCAGCCCCCGATATTCCGCCGAGGGGAGAACTGCGTGTGATTCTGATGAAGGGGGCTGGTGGAAAGCTA
TTTCTCTTAGCACTGGTCGAGAGAGTTACATCCCTGGAATATGTGTGGCCAGAGTTTACCATGGCTGGCTGTTTG
AGGGCCTGGGCAGAGACAAGGCCGAGGAGCTGCTGCAGCTGCCAGACACAAAGGTCGGCTCCTTCATGATCAGAG
AGAGTGAGACCAAGAAAGGGTTTTACTCACTGTCGGTGAGACACAGGCAGGTAAAGCATTACCGCATTTCCTGTC
TGCCGAACAACCTGGTACTACATTTCCCCGAGGCTCACCTTCCAGTGCCTGGAGGACCTGGTGAACCACTATTCTG
AGGTGGCTGATGGCCTGTGCTGTGTGCTCACCACGCCCTGCCTGACACAAAGCACGGCTGCCCCAGCAGTGAGGG
CCTCCAGCTCACCTGTACCTTGGCTCAGAAGACTGTGGACTGGAGGAGAGTGTCCAGACTGCAGGAGGACCCCG
AGGGAAACAGAGAACCCGCTTGGGGTAGACGAGTCCCTTTTCAGCTATGGCCTTCGAGAGAGCATTGCCTCTTACC
TGTCCTTGACCACTGAGGACAACACCTCCTTTGATCGAAAGAAGAAAAGCATCTCCCTGATGTATGGTGGCAGCA
AGAGAAAGAGCTCATTCTCTCATCACCACCTTACTTTGAGGACTAGCCAAGAACAGACACAATGGTTCATGCCC
AAAAGGAACAGAAGTTCCAACATTGCCTGGGATCTTGCAGAAAGCGAGGTTCCCTGATCCCTGGGAGCCTCACG
TATTTTAGAAGCCAAGAGAAGCCACATGGAGACTCAAATTCGCATCTTCTCTATCCACATCATGACCAAAGGAAC
CCCTCCCTGGTGTCTGATCAGGGCTGTGGCATCACAAAACATTGGATCATGACATGTGCGGCGATGCTTGAAAA
GCCCAGCATGTATGTATGCACACATTGTGTGTGTGGGAAGGACAAAGCCACTCTCACAGAAAGGGCACCAGGAC
TGCTCTCAAGGAACCTGGACCTGTCCAGACAGTTACACTCCAAGGTCATTGGAGAGAACTTCTGTATGGCAAGC
CTGAGAGGGAGAGGAAACAAAAGCTGTGTCTTGGCAGAAAGTCTGGGTTTGCAGATGGGTGCCCTGAATGGAAC
ACTTTAACTAATCCATAGGACTTCTGGTATGCTTTCCCTCTCTTTTTAAAGGAACCTTCGTGACACTAAACATTAG
CCCAAAGGACTTCTTAGCCTTCAATTGGGAGATACCTTTGGTCTGCTCCTGCACCAAAGCCATATGGGTGGAAGT
CAGTTGGCCTCCCTGGTTCTGCAGAGGGCCAGAAGAATGAGAGAGAGGAAGACTGCTGGCAGGGAAATCGAGGAG
GCGAGACTAGAACTGCACCAGCTTCCCTGATGTCTGCAGCCATGGCTTTGCAGCGCAAACAGAACTTCTCTGGGA
TGCTGGGATTCTTGCCGTGATGAATGCATCAAGTATTCAATTATTGCCCGAATAGGCATTGCATTAAGTCTCTG
TTAGGTGTCAGGCAAGCCAAAAAAGATGCTAAGTCCTAACCCCAACAGAAGTGTTCACAGTGTAGA
CGGGAAAAATGTATAAACAAATGTGTAAAAAGAGAAATCAGCTCATGGCTTAGGATGGAATTAGAGACAGGTGA
GGGACACTCAGGAGCTCATTTCCAGCTGCTCTTCAGAGTGGAAGGGCTGGCTGGATCGGGTAGGTAAGAATAGC
TGGATTTTTTAGAAAAGAAATGGATACAGTCTAAAGAATTAACCTACCCGGTACTTTATTCTAAGAAGGGTCTGG
CATCCATATGAGGAAAAATGCTCAGCTCCAGGAAAGATGGGGAGTCCAAGTGGATTAATGATGTATGCATAATT
TTAAGAGACAAGGGAGAAAACACAATGTATAGCCAGAGAAGGAGAAGCTCCCATCCAAATCCTACTAGGAAGAGA
GTGGGCTGCAGATGAATCTGTGACTCATGTTCCCTGTTTCAAAGGGATCCTGGGGAAGGAGGGGAACATGCTTG
CAGTATCTCTCCCTGTCTGTCTGCTCACATAAGCATTCCGTCCATCTAAGCTCATCGTGCTACTGGTATGTGTAT
GTGCAGTTACACAGTTTCCCTGTATCATAAATCCTAGTGTGTTTATACAAGGAGACATCTGTGGTTTCCCCAACCG
TTCCAAAAGGCTATTTCAAAGGAACCAGCCACGTATGAGAAATGAATGTAACTGTGGACATTGACTTCCCGC
ATAAGGCAGGGTGACCCCTGAACCTCCAGATGTTTGACAGTATCTTATGTGTGTTTTCCGTGTGACGAATGT
GATTGGAACATTTGGGGAGCACCCAGAGGGATTTTCAGTGGGAAGCATTACACTTTGCTAAATCATGTATTTAT
TCCTGATTAAAAACAACTAATAAATATTTAACCCCTTGGC

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FIGURE 2305

MGNSMKSTPAPAERPLPNPEGLDSDFLAVLSDYPSPDISPPIFRERGEKLRVISDEGGWWKAISLSTGRESYIPGI
CVARVYHGWLFEGLGRDKAEELLQLPDTKVGSFMIRESETKKGFYSLSVRHRQVKHYRIFRLPNNWYYISPRLTF
QCLEDLVNHYSEVADGLCCVLTTPCLTQSTAAPAVRASSSPVTLRQKTVDWRRVSRLOEDPEGTENPLGVDESLEF
SYGLRESIASYLSLTSEDNTSFDRKKKSISLMYGGSKRKSSFFSSPPYFED

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FIGURE 2306A

GCGCGCCTGTGCGGGTGGTGGGTGCAGGACTGGACCCACGGGCCCATTTGTGCGCCCGCCGCGGCAGCCAGGACC
ATGTGGGTGAACCCGGAGGAGGTGTGCTGGCCAACGCGCTGTGGATCACCAGAGGGGCCAACCATACTTTCATC
CTGCAGCGGAGGAAGGGCCACGCCGGCGATGGAGGCGGCGGCGGACTGGCGGGCCTGCTGGTGGGTACCCCTT
GATGTTGTGTTGGACTCCAGCGCCCGGGTCGCTCCTTACCGAATCTGTACCAGACTCCAGACTCCCTGGTCTAC
TGGACCATCGCCTGTGGTGGTTCAGGAAAGAAATCACTGAACACTGGGAATGGCTTGAGCAAAATCTCTTGAG
ACACTCTCCATCTTTGAAAATGAGAATGATATCACCACATTTGTGAGAGGAAAAATACAGGGCATCATTGCAGAA
TACAACAAATCAATGATGTAAAGGAAGATGATGACACGGAGAAGTTTAAAGAAGCCATTGTGAAATTTTCATAGG
CTGTTTGGGATGCCAGAGGAAGAGAACTCGTCAACTATTACTCTTGACGCTATTGGAAGGGGAAGGTCCCCCGT
CAGGGTTGGATGTACCTCAGCATTAAACCACCTTTGCTTTTATTCTTTCTTATGGGAAGGGAAGCGAAACTGGTC
ATCCGGTGGGTAGACATCACTCAGCTTGAGAAGAATGCCACCCTGCTTCTGCCTGATGTGATCAAAGTGAGCACA
CGGTCCAGTGAGCATTCTTCTCTGTATTCTCAACATCAACGAGACCTTCAAGTTAATGGAGCAGCTTGCCAAC
ATAGCCATGAGGCAACTCTTAGACAATGAGGGATTGAACAAGATCGATCCCTGCCCAAACCTCAAAAGGAAATCT
CCTAAAAAAGTGTCTGCTCTAAAACGTGATCTTGATGCCAGGGCAAAGAGTGAGAGATACCGTGCACCTTTTCCGG
CTGCCCAAAGATGAAAAATTAGATGGCCACACAGACTGCACCTCTTGACTCCATTTAACAAAATGCACATTTTG
GGGCAGATGTTTGTGTCCACAAATTACATCTGTTTTACCAGCAAGGAGGAGAACTTATGTAGCCTCATTATCCCG
CTCCGTGAGGTGACAATTGTGGAAGGAGCAGACGCTCCAGTGTGCTCCCGAGTCCCTTATCCATCAGCACCCGA
AACAGGATGACCTTCCTATTTGCCAATTGAAAGATAGAGACTTTCTAGTGACAGGATCTCAGATTTCTTGCAA
CAGACTACTTCCAAAATATATTCTGACAAGGAGTTTGCAGGAAGTTACAACAGTTTTCAGATGATGAGGTGACTCT
CGACCCAGCAGCCTCGTCTCCTCCAGCCCCAGAGAAGCAGAGCTCTGATGCTGATGGAGAGCGCCAGTTTAAAC
CTAAATGGCAACAGCGTCCCCACAGCCACACAGACCTGATGACCATGTATCGGCGGCGGTCTCCCGAGGAGTTC
AACCCGAAATTGGCCAAAGAGTTTCTGAAAGAGCAAGCCTGGAAGATTCACTTTGCTGAGTATGGGCAAGGGATC
TGCATGTACCGCACAGAGAAAACGCGGGAGCTGGTGTGAAAGGGCATCCCGGAGAGCATGCGTGGGGAGCTCTGG
CTGCTGCTGTGAGGTGCCATCAATGAGAAGGCCACACATCCTGGGTACTATGAAGACCTAGTGAGAAAGTCCATG
GGGAAGTATAATCTCGCCACGGAGGAGATTGAGAGGGATTACACCGCTCCCTTCCAGAACACCCAGCTTTTCAG
AATGAAATGGGCATTGCTGCACTAAGGAGAGTCTTAACAGCTTATGCTTTTCGAAATCCCAACATAGGGTATTGC
CAGGCCATGAATATTGTCACTTCAGTGTGCTGCTTTATGCCAAAGAGGAGGAAGCTTTCTGGCTGCTTGTGGCT
TTGTGTGAGCGCATGCTCCAGATTACTACAACACCAGAGTTGTGGGTGCACTGGTGGACCAAGGTGTCTTTGAG
GAGCTAGCACGAGACTACGTCCACAGCTGTACGACTGCATGCAAGACCTGGGCGTGATTTCCACCATCTCCCTG
TCTTGGTTCTTCACACTATTTCTCAGTGTGATGCCTTTTGAGAGTGCAGTTGTGGTTGTTGACTGTTTCTTCTAT
GAAGGAATTAAGTGATATTCCAGTTGGCCCTAGCTGTGCTGGATGCAAAATGTGGACAACTGTTGAAGTGAAG
GATGATGGGGAGGCCATGACCGTTTGGGAAGGTATTTAGACAGTGTGACCAATAAAGACAGCACACTGCCTCCC
ATTCTCACCTCCACTCCTTGCTCAGCGATGATGTGGAACCTTACCCTGAGGTAGACATCTTTAGACTCATCAGA
ACTTCTACGAGAAATTCGGAACATACCGGCAGATTGATTGAACAGATGAGATTCAAACAGAGACTGAAAGTG
ATCCAGACGCTGGAGGATACTACGAAACGCAACGTGGTACGAACCATTTGTGACAGAACTTCTTTTACCATTGAT
GAGCTGGAAGAACTTTATGCTCTTTTCAAGGCAGAACATCTCACCAGCTGCTACTGGGGCGGGAGCAGCAACGCG
CTGGACCGGCATGACCCAGCCTGCCCTACCTGGAACAGTATCGCATTGACTTCGAGCAGTTCAAGGGAATGTTT
GCTCTTCTTTTCTTGGGCATGTGGAACCTCACTCTGACGTTCTGGCCTCCCGCTTGTTCAGTTATTAGATGAA
AATGGAGACTCTTTGATTAACTTCCGGGAGTTTGCTCTGGGCTAAGTGTGCTGATGCCATGGGGACCTCACAGAG
AAGCTCAAACCTCTGTACAAAATGCACGCTTTCCTGAGCCATCCTCTGATCAAGATGAACCAGATTCTGCTTTT
GAAGCAACTCAGTACTTCTTTGAAGATATTACCCAGAATGTACACATGTTGTTGGATTGGATAGCAGAAGCAA
CAGGGTGCAGATGATGGCTTTGTACGGTGAGCCTAAAGCCAGACAAAGGGAAGAGAGCAAATTCCTCAAGAAAT
CGTAATTATTTGAGACTGTGGACTCCAGAAAATAAATCTAAGTCAAAGAATGCAAAGGATTACCTCAAAATTAAT
CAGGGGCAGTTTCACTGTTAAGACAATGTATAACATGTTACGCGAAGACCCCAATGAGCAGGAGCTGTAC
CATGCCACGGCAGCAGTGACACGCTCCTGCTGGAGATTGGGGAGGTTCGGAAGTTGTTTCGTGCCCCAGCCTGCA
AAGGAGGGCGGGAGCGGAGGCAGTGGGCCGCTCCTGCCACCAGGCGATCCAGGCGTGCTCTTCCCCAAGAAAGGG
CCAGGCCAGCCTTACGTGGTGGAGTCTGTTGAGCCCTGCCGGCCAGCCTGGCCCCGACAGCGAGGAACACTCC
CTTGAGGACAAATGAGGACATCAAGCTGGAGGACTCCTCGCCCCGGGACAACGGGGCCTGCTCCTCCATGCTG
ATCTCTGACGACGACCAAGGACGACAGCTCCATGTCTCTACTCTGGTGTGAGTGCCGGCTCCACGAGGAG

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FIGURE 2306B

GACAAGCTGCACTGCGAGGACATCGGAGAGGACACGGTCCTGGTGCGGAGCGGCCAGGGCACGGCGGCACTGCCC
CGGAGCACCAGCCTGGACCGGGACTGGGCCATCACCTTCGAGCAGTTCTTGGCCTCCCTCTTAACTGAGCCTGCC
CTGGTCAAGTACTTTGACAAGCCCGTGTGCATGATGGCCAGGATTACCAGTGCAAAAACATCCGGATGATGGGC
AAGCCCCTCACCTCGGCCAGTGACTATGAAATCTCGGCCATGTCGGCTGACACGGGCGCCTTCCGGGGGAGTG
GGAGGAGAGGGAGGGGAGGGATTTTTATGTTCTTCTGTGTTGAGTTTTTCTTCTTTCTTTTAAATTAAATAT
TTATTAGTACCTGGCTTGAAGCCTAGTGTTCATAATGTAATTCAATGAAAACACTGTTGGAGAAATATTTAAACA
CCTCAATGTAGGTACATTACACTCTTGTTCGGGGAGGGGATTTACCAGAATACAGTTTATTTCTGTAATTCTAA
AAAACAAAAAGATGAATCTGTCAGTGATATGTGTATTATAACTTATTAATCTTGCTGTTGAGCTGTATACATG
GTTTAAAAAATAGTACTGTTTAAATGCTAAGTAAGGCAGCAGTCATTGTGTATTCAGGCTTTTTAAATAAAATTA
GAGCTGTAAGGAAATGAAAAGCCACAAATGCAAGACTGTTCTTAAATGGAAGGCATAGTCAGCGAGGGTAAATC
CTATACCACCTTTAGGAAGTATTAAAAATATTTTTAAGATTTGAAATATATTTCATAGAAGTCCTCTATTCAAAT
CATATTCACAGATGTTCCCTTCAAAGGGAAAACATTTGGGGTTCTAAACAGTTATGAAAGTAAGTGATTTTTTA
CATGATTCCAGAATAACACTTGTATTGACCAATTTAGACAGATACCAGACCAATTTGCATTTAAGAAATTGTTT
TGATTATTTACGTCAACTCATTAGAATTCAGTGAAAAGTAACAGTCTTTTGTCACAGAGAATCTGAAAGTAGCAG
CAAAGACAGAGGGCTCATGACAGGTTTTTGCTTTTGCTTTTGCTTTTGTTTTTGAAAGAGTAAAAGTACTGATGCT
TCTGATACTGGATGTTTAGCTTCTTACTGCAAAAACATAAGTAAAACAGTCAACTTTTACCATTTCCGTATTCTCC
ATAGATTGAAGAAATTTATACCACATATCGCATATGACCATCTTTCCATCAAATCAATGTAGAGATAATGTAAAC
TGAAAAAAATCTGCAAGATAATGTAAGTGAATGTTTTAAAAACAGAACTTGTCACCTTATATAAAAGAAATAGTA
TGCTCTATTTCTGAATGGATGTGGAAATGAAAGCTAGCGCACCTGCACCTTTGAATTCCTTGCTTCTTTTTTATTA
CTGTTATGATTTTGCTTTTACAGATGTGGACGATTTTTCTTCTGATTGTTGAATTCATAATCATGGTCTCAT
TTCTTTGCTTCTTTGGAATATTTCTTTCAACACATTCCTTTATTTTATTATACATTGTCCTTTTTTTTAGCTA
TTGCTGCTGTTGTTTTTATTCTATTTACAGGATGATTTTTAAACTGTCAAATGAAGTAGTGTTAACCTCAAATA
GGCTAAATGTGAACAAATAAAATACAGCAAATACTC

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FIGURE 2307

NLCSLIIPLEVTIVEKADSSSVLPSPSISISTRNRMFTLFANLKDRDFLVQRISDFLQQTTSKIYSDKEFAGSYN
SSDDEVYSRPSSLVSSSPQRSTSSDADGERQFNNGNSVPTATQTLMTMYRRRSPEEFNPKLAKEFLKEQAWKIH
FAEYGGGICMYRTEKTRELVLKGIPESMRGELWLLLSGAINKATHPGYYEDLVEKSMGKYNLATEEIERDLHRS
LPEHPAFQONEMGIAALRRVLTAYAFRNPNIYGQAMNIVTSVLLLYAKEEEAFWLLVALCERMLPDYYNTRVVG
LVDQGVFEELARDYVPQLYDCMQDLGVISTISLSWFLTLFLSVMPFESAVVVVDCFFYEGIKVIFQLALAVLDAN
VDKLLNCKDDGEAMTVLGRYLDSTNKDSTLPPIPHLHSLSDDEPYPEVDIFRLIRTSYEKFGTIRADLIEQM
RFKQRLKVIQTLEDITKRNVRTIVTETSFTIDELEELYALFKAHLTSCYWGGSSNALDRHDPSPYLEQYRID
FEQFKGMFALLFPWACGTHSDVLASRLFQLLDENGDSLINFREFVSGLSAACHGDLTEKLKLLYKMHVLEPSSD
QDEPDSAFEATQYFFEDITPECTHVVGLDSSRSKQGADDFVTVSLKPDKGKRANSQENRNYLRLWTPENKSKSKN
AKDLPKLNQGGFIELCKTMYNMFSEDPNEQELYHATAAVTSLLLEIGEVGKLFVAQPAKEGGSGGSGPSCHQGIP
GVLFPKKGPGQPYVVESVEPLPASLAPDSEEHSLGGQMEDIKLEDSSPRDNGACSSMLISDDDTKDDSSMSSYSV
LSAGSHEEDKLHCEDIGEDTVLVRSGQGTAAALPRSTSLDRDWAITFEQFLASLLTEPALVKYFDKPFVCMMARITS
AKNIRMMGKPLTSASDYEISAMSG

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FIGURE 2308

ACCAACTAGAACTCCAATATAGTCTTCTGTTTTATGTCAATGCATTGCAATCAGATTCAGAATCCTAACAG
GTAAATTGGAGTCTACGAAAATTTATAATAATTGCTTCATGGACTCTGAGCTATAGTCTATATCTTAGTTTTTT
CAAACATTTTGACTATTTTGACCAAGCCAGCTTGCACTACAGAAAAAGTGAAAAATGTTTCTCCTTCTGAATGC
ATTCTTACCACTTTGATTCTTTCTGTTTCTACTATCCATATAAATACTTTTCTGACCCTTTTGTTAGACAAGGAA
AAGTTTCTTTGTTATTTGTTTTGTTAAATGTAAGGAATGAGACAGGCCAAACAGTGAAGATAAACAATAGATC

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FIGURE 2309

AGAGGGAAAGCGAGAGGGAGACGGACGTTGAGAGAACGAGGAGGAAGGAGAGAAAATGGCGTCCACGGATTACAG
TACCTATAGCCAAGCTGCAGCGCAGCAGGGGTACAGTGCTTACACCGCCCAGCCCAGCTCAAGGATATGCACAGAC
CACCCAGGCATATGGGCAACAAAGCTATGGAACTATGGACAGCCCAGCTGATGTCAGCTATACCCAGGCTCAGAC
CACTGCAACCTATGGGCAGACCGCCTATGCAACTTCTTATGGACAGCCTCCCACTGGTTATACTACTCCAAGTGC
CCCCAGGCATACAGCCAGCCTGTCCAGGGGTATGGCACTGGTGCTTATGATACCACCACTGCTACAGTCACCAC
CACCCAGGCCTCCTATGCAGCTCAGTCTGCATATGGCACTCAGCCTGCTTATCCAGCCTATGGGCAGCAGCCAGC
AGCCACTGCACCTACAAGACCGCAGGATGGAAACAAGCCCAGTGAAGTACTAGTCAACCTCAATCTAGCACAGGGGG
TTACAACCAGCCCAGCCTAGGATATGGACAGAGTAAGTACAGTTATCCCCAGGTACCTGGGAGCTACCCCATGCA
GCCAGTCACTGCACCTCCATCCTACCTCCTACCAGCTATTCTCTACACAGCCGACTAGTTATGATCAGAGCAG
TTACTCTCAGCAGAACACCTATGGGCAACCGAGCAGCTATGGACAGCAGAGTAGCTATGGTCAACAAAGCAGCTA
TGGGCAGCAGCCTCCCACTAGTTACCCACCCCAAACTGGATCCTACAGCCAAGCTCCAAGTCAATATAGCCAACA
GAGCAGCAGCTACGGGCAGCAGAGACCCATGGATGAAGGACCAGATCTTGATCTAGGCCCTCCTGTAGATCCAGA
TGAAGACTCTGACAACAGTGCAATTTATGTACAAGGATTAAATGACAGTGTGACTCTAGATGATCTGGCAGACTT
CTTTAAGCAGTGTGGGGTTGTTAAGATGAACAAGAGAAGTGGGCAACCCATGATCCACATCTACCTGGACAAGGA
AACAGGAAAGCCCAAAGGCGATGCCACAGTGTCTTATGAAGACCCACCCAGTCCAAGGCTGCCGTGGAATGGTT
TGATGGGAAAGATTTTCAAGGGAGCAAACTTAAAGTCTCCCTTGCTCGGAAGAAGCCTCCAATGAACAGTATGCG
GGGTGGTCTGCCACCCCGTGAGGGCAGAGGCATGCCACCACCACTCCGTGGAGGTCCAGGAGGCCAGGAGGTCC
TGGGGGACCCATGGGTGCGATGGGAGGCCGTGGAGGAGATAGAGGAGGCTTCCCTCCAAGAGGACCCGGGGTTC
CCGAGGGAACCCCTCTGGAGGAGGAAACGTCCAGCACCGAGCTGGAGACTGGCAGTGTCCCAATCCGGGTGTGG
AAACCAGAACCTTCGCCTGGAGAACAGAGTGCAACCAGTGTAAAGGCCCCAAAGCCTGAAGGCTTCTCCCGCCACC
CTTTCCGCCCCCGGGTGGTGATCGTGGCAGAGGTGGCCCTGGTGGCATGCGGGGAGGAAGAGGTGGCCTCATGGA
TCGTGGTGGTCCCGGTGGAATGTTTCAAGGTGGCCGTGGTGGAGACAGAGGTGGCTTCCGTGGTGGCCGGGGCAT
GGACCGAGGTGGCTTTGGTGGAGGAAGACGAGGTGGCCCTGGGGGGCCCCCTGGACCTTTGATGGAACAGATGGG
AGGAAGAAGAGGAGGACGTGGAGGACCTGGAAAAATGGATAAAGGCGAGCACCGTCAGGAGCGCAGAGATCGGCC
CTACTAG

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FIGURE 2310

MASTDYSTYSQAAAQQGYSAYTAQPTQGYAQTTQAYGQQSYGTYGQPTDVSYTQAQTTATYGTAYATSYGQPPT
GYTTPTAPQAYSQPVQGYGTGAYDTTATVTTTQASYAAQSAYGTQPAYPAYGQQPAATAPTRPODGNKPTETSQ
PQSSTGGYNQPSLGYGQSNYSYPQVPGSYPMQPVTAAPPSPPTSYSSSTQPTSYDQSSYSQQNTYGQPSSYGQSS
YGQSSSYGQQPPTSYPPTGYSYSQAPSQYSQQSSSYGQQRPMDEGPDLDLGPPVDPDEDSDNSAIYVQGLNDSVT
LDDLADFFKQCGVVKMNKRTGQPMIHIYLDKETGKPKGDATVSYEDPPTAKAAVEWFDGKDFQGSKLKVS LARKK
PPMNSMRGGLPPREGRGMPPPLRGFGGPGGPGGPMGRMGRRGGDRGGFPFRGFRGSRGNPSGGGNVQHFRAGDWQ
CPNPGCGNQNFARTECNQCKAPKPEGFLPPPPPPPGGDRGRGGPGGMRGGRGGLMDRGGPGGMFRGGRGGDRGG
FRGGRGMDRGGFGGGRRGPGGPPGFLMEQMGGRRGGRGGPGKMDKGEHRQERRDRPY

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FIGURE 2311

AGACGCGCAAGGGCGCCGATGGAGGCAGACTCGCCAGCGGGCCCCGGCGCCCCAGAGCCCCTCGCGGAGGGAGCG
CGGGCCGAGTTCTCCAGCCTGCTGCGCAGGATAAAAGGCAAACTCTTCACCTGGAATATTTTGAAAACAATTGCC
CTGGGTCAGACGTTGTCCTTGTGTATATGTGGGACAGCCATCACCAGCCAGTATTTGGCAGAAAGATACAAAAGTG
AACACCCCATGCTTCAGAGCTTTATCAATTATTGCTTGCTGTTCCCTAATTTATACAGTGATGCTGGCATTTCGA
TCAGGCAGTGATAACCTTTTAGTAATCTTGAAAAGAAAATGGTGGAAGTACATCCTGCTGGGACTAGCAGATGTG
GAAGCTAATTATGTGATCGTCAGAGCCTACCAGTACACAACCTCTAACCAGTGTCAGCTTTTGGATTGCTTTGGG
ATTCCTGTGTTGATGGCTCTGTGATGTTTATTCTTCTGCAAGATACAGAGTGATCCACTTCATCGCCGTGGCT
GTCTGTCTGTTGGGTGTAGGAACCATGGTTGGTGACACATACTAGCAGGGAGGGAAGACAATTCAGGGAGTGAT
GTATTGATTGGTGACATCTTGGTCCTTCTTGGGGCTTCCCTCTATGCCATTTCAAATGTTTGTGAGGAATACATC
GTGAAGAAGCTGAGCAGACAGGAGTTTTTAGGAATGGTGGGCCTGTTTGAACAATTATCAGTGGTATACAGCTA
TTGATTGTGGAATATAAGGATATTGCCAGCATTTCATTGGGACTGGAAAATTGCCCTGCTGTTGCTGGCATTTCGC
CTGTGTATGTTTTGCCGTGACAGCTTCATGCCATTGGTGATTAAAGTCACTAGTGCCACTTCCGTCAACCTGGGC
ATCCTGACAGCGGACCTCTACAGCCTTTTTGTGGACTCTTCTGTTTGGCTATAAGTTTTCAGGACTCTACATC
CTGTCTTCACTGTGTCATCATGGTGGGGTTTATCCTGTACTGCTCCACCCCTACTCGCACGGCCGAGCCGGCTGAA
AGCAGCGTGCCTCCAGTCACCAGCATTGGGATTGACAACCTGGGGCTGAAGCTGGAGGAGAACCTCCAGGAGACC
CACTCTGCTGCTTGTAGCTGGAGAAGATGGCGCACCCATCCCCACCAGGATAAAGCAGAGCCTGCTGCCTGCT
GAGGGGACACTTGGGGAAATAGCAGACTCAGAATGGACACTCTACAACCTGGGTTGGATCCAGTGGTTAGGTTT
TAGAAAGGAACACTGAACAAAGTTCAAAGTAGAAATACAAAATAGAGCAGAAACCAAGCTAAGAGTGTGTTTC
TGTGTTTGAGGACCAATATCTGTTGCTGTTGAGGAGATGAGGTGCAGACTCCACACTGGGGTCTTAGAGGCACCG
GTGGGAAAGCAGGACTGGGGAGAGATCCAGGACTGAGCCAGCCTCAGGCCAGGGCGGGAAGCAGGCTGTCCAGG
CTGGGCTTGGTGGTCAGGAACAGGGGCAGCTCACGGTGGCTCTGGAGTACGTTTCTCTGTGATGCTTCAAGG
TTTTTTTTTTTTTTTTTTTTGCTGAGGCAGTTATTGTCCACAGGCCTTTGGGTACAGATGAGGCCTCGGGGCTG
ACTGCATGTGGCAGAAAACGGGTGGGTGAGCCCTTGAAAAGTCTTGAGATATAAGTGTGAGTACTATACAAGCAT
TAAACTGGAGTGCAGTAAACCTAGGAACCTTCCCACAATTGTTTTTTGTTTGTGTTGAGATGCAGAGTCTAGAGT
GCAGTGGTGCAAGCTCAGCTTACTGTAACCTCTGCCTCCTGGATTCAAGTGTAGTAGCTGGGATTACAAAAGCA
TGTGGCCCCACGCCCAGCTAAGTTTTGTATTTTTAGTAGACATGGGGTTTACCATGTTGCCAGGCTGGTCTTG
ACCTCCCAGCCTCAAGTGATCTGCCTGCCCCGACCTCCCAAAGTGCTGGGATTACAGGCTTGAGCCACCGTGCCA
GGCCTGTTTTGTTTGTGTTTGTAGAGAGATGGGGTTTCGCCATGTGCCCAGGCTAATCTCAAATTCCTGAGCTA
AAGCGATCTGCCACCTCGGCCCTCCGAAAGTGCTAGGATTACAGATGTGAACCACTGTGCCTGGCCTGTTTGT
GTTTGTGTTAAACATTTCTCCATCACTCATTCCAGGTCCCAGAGCAAACTCTCTGCTCTCGGAGCCTGTGACA
CTGGCTATGTGCTCCACAGTTTCAGTCCCAGGTCATACTCTCCAACAGTTTTTCAGAGCTCCATATATATGTAGAT
GCCATCCTTTCTAAAACTTCTCACGACCTCCTGGAATATTCTTATTGATCTCATTTTATTTAGCATCAGTCAA
GAACTAAGTCTTAGTGACAGTATCACAACAAAGAAAAAGCTTTGTTTTTATAACTGGTAAAAACAAGAAAAGA
TTCTCATCAAAATGAAAATATAAAATTAATCATTCTCACCAAGAGTATGCCTGGGAGCCTCCAGCTGTTAAAA
GACAATGCTATTACTACTTCTTATCAAAAATCTGTAATGCCCTGTGATTTTTATGATACTTCTTCAATACAAAGT
GTTAATATGTGTCATCAGTATAATAACAACCAACAAAATGCCACTTTCAGAAAACGTATGTAAATTTTTTGTA
CAATGTAAAAAAGAAATGGGGAGTAAGTGTTACATCATTAAGGCTTTGAATTCATGGAAT

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FIGURE 2312

MEADSPAGPGAPEPLAEGAAAEFSSLLRRIKGLFTWNILKTIALGQTLSLCICGTAITSQYLAERYKVNTPMLQ
SFINYCLLFLIYTVMLAFRSGSDNLLVILKRKWKYILLGLADVEANYVIVRAYQYTTLTSVQLLDCFGIPVLM
LSWFIHARYRVIHFIAVAVCLLGVGTVMVGADILAGREDNSGSDVLIGDILVLLGASLYAISNVCEEYIVKKLSR
QEFLGMVGLFGTIISGIQLLIVEYKDIAHWDWKIALLFVAFALCMFCLYSFMPLVIKVTSAHSVNLGILTADL
YSLFVGLFLFGYKFSGLYILSFTVIMVGFILYCSTPTRTAEPAESVPPVTSIGIDNLGLKLEENLQETHSAVL

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FIGURE 2313

CATTAAAAATAAAGGGCATTACCCATATCATTCTCTGAGCTATACCAGTGGAGACACTGCCACTGATTCTCCAG
TGCATGTTGGACGTGCTGGGATGCCAGTAAAGGACAGTCCAAGGAAGGAGAGCCTACTCAGCTACCTGACTGGAA
GCTTCCCAAGCCTGCACAACCTCCTGGAAGGTACTCCTCAGAGAAGCAGTGCTGCTGTGAAAAGTAGCTCCCTAA
CGAGAACAGGAAATACAGTAGCCACTGATATGTTATCTGAACATCCCTTGCTATCTGAGCCATCATCTGTGAGTT
TCTATAATTGGATGTCAAATGCTGTGGGTAATCGAGGAAGTGTGTTACAAGAATCTCCTGTTACAAAATCAGGAC
ACAATAGTCTTCCCACAGGTGTTGCACCCAATCTTCCAACAATACCCTCAGCCTCAGATTTCAACACTGTCTTGT
CTAGTGACCAAAATACTTTGGATGGGACACATTCTCAGCATAGCACCAGTCAGGATGATGTGGCAGGTGTAGAAG
AAGCAAACCAAGGGTTTCTGCTGTTTCAGCTTGCTGATGCACAGGTTGTTTTCAAGCCTCTTCTGAGTCATACAG
GGATCCAGTCACAGGATACAATGCCATTCTGCTACCGAATGTACTTTGGAGAACACCTTTCAATTTTCAGGGACTT
TGGACTGCCTCAGAGCAGATATTGTGGATTGACACACAGCCAAAGAGAGAAAAGGCAAAGAGCAAGAAGGCAAG
GCCATGTGAATCTTCTCCACTTGAGTTCAAACCAGCATTAAATGTTGGGAACCTTTAGCATCAGTGCTGTTGTAA
TGGAAAAGTCCGTGTGCACCCCTCAGAACTCTACCACTGCCCCTTTCTTTTCATGATCTCAGCAAGCGGTATTATA
ACACCTTTCACTGCAACTTTACTATTTCTGTCTAGTCAATAAGCCAGCATGTAGATATGGCTTTGGTTCGTCTTA
TTCATCAGTTTAGCACAATGATAGATGACATCAAAGCAACTCAGACTGATATTAACTTAGCAGATATACAGCCG
GATCTGCTTCCCCAACACCTACCTTCAAACCAGAAAACATCGGGACTTTCGTTTCATCTGACTTTAGCCGCAGTT
CTAGAGGAAGTCTTAATGGTGGCAATAGAGTAAATAATGCAAAGAACAACGACCAACAATGAGAATAACAAAA
AGGAATCTCGAAACAAGAATTCATTAGGAAGATCTGAAAGAAGAACATCAAAGTGTCTAGGAAAGGTTCAAAG
ATGTGGTGGATCACATGACTATTTCATATGGATGACTCTGATTCAATTACAGTGTGAGAACAAAGTGAGCCTTCAG
CTGAGTGCTGGCAGAAATATGTATAAATTGCTTAACCTTCTATTCACTTATCTCCGATCCAACAGGAATATTGGAAA
AGTCTTCAGAAACATTTGGACCAGCAGGAGTTCGGAGCCCTACAGAGCCAACATGTAAAGTTGTGTTTGAGAATG
AACAAGACAACAGCAGTTTGACTAAGACTCAGAGGAAACGTAGCTTGTTAACTTCTGAACCTCAGCATGTTACTC
TAATAGTGTGTTGGGATTGGCATGGTGAACCGCACACACCTAGAGGCAGATATTGGTGGACTAACAATGGAATCAG
AACTGAAGAGGATCCATGGCAGTTTTACTCTTAAGGAAAAAATGAAAGATGTTTTACATCAAAAGATGACTGAGA
CTTGCTGCTACTGCTCATATTGGTGGGGTTAATATTGTGCTGCTTGAAGGGATTACACCAATATACAACCTGGAGG
ATTTTCTACATCTCCTACAAGTACAGCCAAACAAGAGTTTCTGTATGTCATATTATCTTTTTCATGGCTTTGTT
AATTACTGTAGTATTGAATAGTTTTTAAAAATATTTAAATTTTTTTCATGGCTGTGAATTATTTAGTTATTGTTTT
GTAGCTGTAATATAGGCCCTTTTATATAATAGATTAAAGCTTACTGGTAATCAAGGAAAAAAAAAAAAAAAAAAAA
AAA

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FIGURE 2314

MPVKDSPRKESLLSYLTGSFPLHNLLEGTPQRSSAAVKSSSLTRTGNTVATDMLSEHPLLSEPSVSVFYNWMSN
AVGNRGSVLQESPVTKSGHNSLPTGVAPNLPTIPASDFNTVLSSDQNTLDGTHSQHSTSQDDVAGVEEANQGFP
AVQLADAQVVKPLLSTGTGQSQDTMPFCYRMYFGEHLSFSGTLDCLRADIVDSDTAKERKKGKRARRQGHVNLPP
LEFKPALMLGTFSISAVVMEKSVCTPQNSTALSFDLSKRYNTFHCNFTISCQSIHQHVDMALVRLIHQFSTM
IDDIKATQTDIKLSRYTAGSASPTPTFKTRKHRDFRSSDFSRSSRSLNGGNRVNNAKNKRTNNENNKESRNKN
SLGRSERRTSKVSRRGSKDVVDHMTIHMDDSDSITVSEQSEPSAECWQNMVYKLLNFYSLISDPTGILEKSSETFG
PAGVRSPTTEPTCKVVFENEQDNSSLTKTQRKRSVLTSEPQHVTILVFGIGMVNRTHLEADIGGLTMESELKRIHG
SFTLKEKMKDVLHQMTETCATAHIGGVNIVLLEGITPNIQLEDFPTSPTSTAKQEFVILFFFMAL

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FIGURE 2315

ATAATTCAGTGAAGTGTGACATAGATGTATCAAAGGGAGCATTGCTAGAAGGGCAGCTAGTGATTTCATAGAA
GGATTAAATTCTAAGCACCAGGCAAATGCTCTTCATTGTGTAACTAGATGGAGTCTCACTCTGTTACCCAGG
CCGGAGTGAGTGGCGCAGTCTCGGCTCACTGCAACCTCCACCTCCCAGGTTCAAGTGATTCTCATGCCTCAGTC
CCCCGAGTAGCTGGGATTACAGATGCCCACCACCATGCCTGGCTAATTATGGTTGCTTCTGCAGGAAGCCTTTTT
GGTGGCATGGTCTCAAGAAGTTCCTAAAAGAAATACAGTCCATACTGCCCAGGATCTCTGCAAAGCTGACTTGG
ACTTCAGAGGAAGGCAGCTATTCTCAGGATATGACAGGGGTAAACCCCTTCCAGATGATTTTTGAGGTTGATGAA
AAGCCCAGAACCTTGATGACAGATTGTCTGGTTATAAAGCATTTTTTACGTAAAATCATCATGGTGCACCCTAAG
GTCAGATTTTCATTTCAGTGTAAGGTAAATGGAATCCTCTCCACAGAGATCTTTGGGGTGGAGAATGAACCCACT
TTGAACCTTGGGAATGGAATTGCTCTTTTGGTGCAGTCCCAGCATTATGTGAGACCAAATTTTGGTACAATTGAA
TCACACTGCAGCAGAATTCACCTGTGCTAGGACATCCAGTAATGCTTTTCATCCCTGAAGACGTGGCTGGCATG
GACTTGTGGGAGAACTGATACTGACTCCAGCAGCTGCAGTGTGCCCCAGCCCAAAGGTTTTCTTCCAACCAGCTT
AACAGGATTTCTTCAGTTTCCATATTTCTATATGGACCTTTGGGTCTGCCTCTGATATTGTCAACTTGGGAGCAG
CCGATGACTACTTTCTTCAAAGATACCTCTTCTTTAGTTGACTGGAAAAAATACCATTGTGTATGATACCCAAT
TTGGATCTCAATTTGGATAGAGATTGGTGCTTCCAGATGTGAGTTATCAGGTGGAATCCAGTGAGGAGGATCAG
TCTCAGACTATGGATCCTCAAGGACAACTCTGCTGCTTTTTCTCTTTGTGGATTTCCACAGTGCATTTCAGTC
CAGCAAATGGAATCTGGGGAGTCTATACTTTGCTCACAACCTCATCTCAATGCCATCCTTGTGGAGAGCCACAGT
GTAGTGCAAGGTTCCATCCAATTCAGTGTGGACAAGGTCTTGGAGCAACATCACCAGGCTGCCAAGGCAGCTGAC
ACACAAGAGTTTCAGGACCAAACCTGCACAAAGTATTTCTGTGAGATCACCAACACCAATTTCTTCACCACTGCTCA
TGTGAGGTGAAGCAGCAGCTAACCCTAGAAAAAAGGACTCAGCCCAGGGCACTGAGGACGCACCTGATAACAGC
AGCCTGGAGCTCCTAGCAGATACCAGCGGGCAAGCAGAAAAACAAGAGGCTCAAGAGGGGCAGCCCCCGCATAGAG
GAGATGCGAGCTCTGCGCTCTGCCAGGGCCCCGAGCCCGTCAAGAGGCCGCCCGCGCCCGGGAAGCCACCGCG
GCCCCCTCACTCCTAGAGGAAGGGAGCACCGCGAGGCTCACGGCAGGGCCCTGGCGCCGGGCAGGGCGAGCCTC
GGAAGCCGCTGGAGGACGTGCTGTGGCTGCAGGAGGTCTCAACCTGTGAGAGTGGCTGAGTCCCAGCCCTGGG
CCCTGAGCCCGGTCCCCCTTCCGCAAGCGCCACCGATCCGGAGGCTGCGGGCAGCCGTTATCCCGTGGTTAATA
AAGCTGCCGCGCTCACCAAAAAAAAAAAAAAAAAA

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FIGURE 2316

MVASAGSLFGGMVLKKFLKEIQSILPGISAKLTWISSEEGSYSQDMTGVTFFQMIFEVDEKPRTLMTDCLVIKHF
RKIIMVHPKVRFHFSVKVNGILSTEIFGVENEPTLNLGNGIALLVDSQHYVRPNFGTIESHCSRIHPVLGHPVML
FIPEDVAGMDLLGELILTPAAALCPSPKVSSNQLNRISSVSIFLYGPLGLPLILSTWEQPMTTFFKDTSSLVDWK
KYHLCMIPNLDLNLDRDLVLPDVSQVESSEEDQSQTMDPQGQTLLFLFVDFHSAFPVQQMEIWGVYTLTTHL
NAILVESHVVGSIQFTVDKVLEQHHQAAKAADTQEFRTKLHKVFREITQHQLHHCSEVKQOLTLEKKDSAQ
GTEDAPDNSSLELLADTSGQAENKRLKRGSPRIEEMRALRSARAPSPSEAAPRRPEATAAPLTPRGREHREAHGR
ALAPGRASLGSRLEDVLWLQEVSNLSEWLSPPGP

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FIGURE 2317

CTGACTCTGTCTGGGCATTCTTCCTGGGCTAGAGATGCTCTGCCTCCCAGCAGAAGACAAGAGCCCTAGAAAGAC
TGTCATTCACTTTACTGGAGAGAGAAATGGTTTCATCTACACACACACTCAGAGCCTGGCTAGCTACAAAGCCGTGG
TCCGTGGTAGGATGTACGTCTTAGTGGAATAAGTAACCTTGAGCAGACAATGGATCCAGCAGTAACAAGCCTGCC
CTGATGCCGGCGTAAATTCCGAAGGAGCTGGAGAACGATTCTCCCTTCACTTTATCTAAATCCTCTGAAGGATG
AGTGGGAGGATGGTTTCTTCTCCCTTCTGAAGTTGTTTTGTTGGTGCCTTATGCTAAGAGAACCTCAGCAGATA
CAAATTTATTATTTTCTTTTACAGCATTCTCCCTGCAGTTAGAAGAAAACAGCAGCTCACATTGAAAAATATC
TAATCCCAAATACGTGATTCCAATAGGGAGTTTATAGAATTTGCTTCTTACCAAAGCAAAATCTTGAATACAT
GAAATCTAAAATCTTGCCAATTTAATGAATGCCTAATAATTTTTAAATAGCATATATCATTTTAATACATTAAAT
AGTTGGAAGATTGTTGAGGGATAATTTGTCAATTTTTATTAAAAAGAAAATTCAAAAAATTAATATTCTACA
TTTATTTTATATTATTATCTTGGCAATTTTATTTTTATGACAAAATCTGAGTCTGTTATATTATCCAAATCCT
AAAAAGATTTAATTGATTACAGAAAAATGTATTGGGAAAAATTGCTTTGCCCTCTTTTTCTCTAAGCAATTCC
TGAGTTTTAAAAATACTCCTTAAAGGAATAATTTATTTTTTCATGGCCCATCACCAATATCCAAGAGAGTAACCA
ATTTTTAAATCTGAACCTGTCTTGTGTGACTTTCAAATAAATGAAATGAAGAGGCCCTCAGGCAGTCTGTGTT
TACACAGGGTGGCAAAATTAACCTTAAGTTACTTGGATCACTGCCTGGGGACACTTCAGAGCCTCTACTCAGGC
TACTTTTGAGCATACTATGTATGTCGCTGTGCAGAAGCCTACCTCTTCACTCTAGATAAAACAAGACTTTCTGA
GCATTACTCTGAGCAAAGCACCGTGCCGCAAGTACAAGGTGGATAAGACTCAGTCCTTGATTGATGGTCTTT
GTTGGAATAGGTTTTCAAAGTGAATGTCACTGTGTCTCCAGGGGCCAAAAGTTTGCTTTTATTGATGGGTTTC
AAAGTAGGGATGAGTTTACTTATAAGTACACATTGTGTCAATAGTATGCTTGACTCTCCATGGTGCAAAATTTCT
TTCTAATGCTGATCAATTGCAAACATGATAGAACAATGAAATACTTCCAGGACATTCTAAATCACTCTCCTCCTT
GTGAGAAAATAGGGTAGAGAGCCTAGCCTGGTACAGGCAGCCATCCATGTCTGATGTGGGTCACTCTGAGAATG
ACACTCCTCAAAGGGCCAGAGGGTGCTCTTTCTTCAATTTCCCTTACACATGGGTGTTATTCAATACTTATCTACA
GCCATGTGTCACTTAACAACCTAGGGTGGTATAGTTCCAAGAAATCTGTCAATAGGCTATTTTGTATTGTGTGATCACA
GAGTGTACTTACACAAACCTAGGGTGGTATAGTTCACTGTACCACCAAGGCCATATAGTGTAGCCTAGGCTACAA
TATACCTAGGCTATATAGTATAGCCTGTAGCTCCTAGGCTACAAACCTGGACAGCATGTTACTGCACTGAGTACT
GTAGCAATTGTTACACAGTGGTAACTATTTGTGTATCTAAACATATCTAAACATAGAAAAGATACAGTAAAAATA
CAGCAGTATAATCTTATGGGACCACCGTTGTATATGTGGTCCATCGTTGATGGAAACATTGTTATGTGGCACATG
ACTGTATATGCTTCGTATATAGTGAACATTCAGCAAAGGTTTTATCAATGAATGGATAAATTGGCAACTTTTAT
GGGCTTAATTGGGCTAAAATATATACGGAGTCACTATTTGACTTAACACCTAGACATTATTTTACTGATATTTT
CAATAATTCTGTTTTTGTAAAGCCTTCCTTCCATTTGGGTGCAATTTCCACTTGGGGAAAATCTCATTCCCATC
CTCTTGTAATTAAAAAGCATGGTTTGTGTTTGTGTAACCAAAGTAAATTGAGCAAAAAAAAAAAAAAAAAAAAA
AA
AA

A

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FIGURE 2318

GCGGTTCTCTAGGAAAATTCCTTTGTGCAGATCAGGCCCGTGGATTGGTGAGTGAATCCTAACCACGTCCTCC
TGGCCTGTCTTCACTCTTCTCCCCAGAATCACCCTTCTGCCTGGTGTCTGAAGGTGATTGAGTGATTTTGTG
GAGGGCAGAAGTAGGAAGTCTTTGGGACAAAACCTGTATTTACCTTGGGATCTGTGAACAAGAGGAACCTCAGCAG
CCAGGACAGGCAGGAGCAGTGGAAATAGCTACTATGGCTTCTGGAATCCTGGTTAATGTAAAGGAGGAGGTGACCT
GCCCCATCTGCCTGGAACCTCTGACACAACCCCTGAGCCTGGACTGCGGCCACAGCTTCTGCCAAGCATGCCTCA
CTGCAAACCACAAGAAGTCCATGTAGACAAAGGAGAGAGTAGCTGCCCTGTGTGCCGGATCAGTTACCAGCCTG
AGAACATACGGCCTAATCGGCATGTAGCCAACCTAGTGGAGAAGCTCAGGGAGGTCAAGTTGAGCCAGAGGGGC
AGAAAGTTGATCATTGTGCAGCCATGGAGAGAACTTCTACTCTTCTGTGAGGAGACGGGAAGGTCAATTTGCT
GGCTTTGTGAGCGGTCTCAGGAGCACCGTGGTCACCACACGTTCCCCACAGAGGAGGTTGCCAGGAGTACCAAG
TGAAGCTCCAGGCAGCTCTGGAGATGCTGAGGCAGAAGCAGCAGGAAGCTGAAGAGTTGGAAGCTGACATCAGAG
AAGAGAAAGCTTCTGGAAGACTCAAATACAGTATGACAAAACCAACGCTTTGGCAGATTTTGAGCAACTGAGAG
ACATCTGGACTGGGAGGAGAGCAATGAGCTGCAAAACCTGGAGAAGGAGGAGGAAGACATTCTGAAAAGCCTTA
CGAACTCTGAAACTGAGATGGTGCAGCAGACCCAGTCCCTGAGAGAGCTCATCTCAGATCTGGAGCATCGGCTGC
AGGGGTCAGTGATGGAGCTGCTTCAGGGTGTGGATGGCGTCATAAAAAGGACGGAGAACGTCACCTTGAAGAAGC
CAGAACTTTTCCAAAAATCAAAGGAGAGTGTTCGAGCTCCTGATCTGAAAGGAATGCTAGAAGTGTTAGAG
AGCTGACAGATGTCCGACGCTACTGGGTGATGTGACAGTGGCTCCAAACAACATTTTCATGTGCTGTCAATTTCTG
AAGATAAGAGACAAGTGAAGTCTCCGAAACCACAGATAATATATGGGGCACGAGGGACAAGATACCAGACATTTG
TGAATTCAATTATTGTACTGGCATCCTGGGCTCTCAAAGTATCACATCAGGGAAACATTACTGGGAGGTAGACG
TGTCCAAGAAAACCTGCTTGGATCCTGGGGGTATGTGCTGGCTTCCAACCTGATGCAATGTGTAATATTGAAAAA
ATGAAAATATCAACCTAAATACGGCTACTGGGTTATAGGGTTAGAGGAAGGAGTTAAATGTAGTGCTTTCCAGG
ATAGTTCTTCCATACTCCTTCTGTTTCTTTCATTGTGCCCTCTCTGTGATTATTTGTCTGATCGTGTGGAG
TTTTCTAGACTATGAGGCTTGCACTGTCTCATTCTTCAATATCACAAACCATGGATTTCTCATCTATAAGTTTT
CTCACTGTTCTTTTTCTCAGCCTGTATTTCCATATTTAAATCCTAGAAAATGTGGAGTCCCATGACTCTGTGCT
CACCAAGCTCTTGAACCTTCTTACACACTCAGCCCTTCTGTACAGCACCTCTTGTCCAGGTGCATCTCATAAC
CTGAACTCATTTGCATCATTTTAACCATCTTTTCTTGTGTCTCCCTTCTTCTATTGTAACGTCCTTCACTCA
TCAGTAAATGTAATAATTGCCTTGTGCCATATTGTCCCAATATTTTATGACATTTGATAGCAATTTTTTCA
TCATTTTCCGTACTCCTAAGGAAAACCTGACCTATACCTCATAAAATGAGACCGCTATTTAGGTATTACTTCTGCC
AGATATTTATCACCAATTGCCTCTGACACTGACTAAGAAGATGAAGAAAAGCTTTTCAACAGCCTTTCTATATC
ATCGTGTGATAATTGTTACCAATGAATGAGTCTTAGCCCTGTGTGAGTTACCCTCGATGCCCTTATTTGTGA
GTTAAAGAGAAAATATCATAAATGGTATACTCTTAAGTATAGAGGTTTTGTATCTAGAGGATCTCAGTTCAACTC
CTGTCTCTCCATATACCAGCAGTGTAACGTGAATAACATACTTAAATGGCTGTGCTTATTTCTTTCTTTCT
TTTTCTTTTTTTTTTTTTTGTAGATGAAGTTTGTCTTGTTCCTCCAGGCTGGAGTGCAATGGCAGCATCTCGG
TTCCTGCAACCTCCACCTCTCAGATTCAGCAATCTCCTGCCTCAGCTCCCAAGTAGCTGGGATTACAGGTG
CCCACCACCACCCCTGGCTAAATTTGTATTTTCAGTAGAGACGGGGTTTCCCATGTTGGTTAGGCTCGTCTAGA
ACCTCTGACCTCAGGTGATCCACCCGCTCGGCTCCCAAGTGTGGGATTACAGGCGTGAGCCACGGCGCCCA
GCCTGTGCTTATTTCTTAAAAATAATTTTGTATTAAAACTTCACATTAAATAAGTGCTAATGTTTTATTGCAT
AGTAGGGTGAAGTAAACAATAACCTATTGCATATATTTGAAATAGCTAGAAGAGAGGATTTTGAAAGTTC
TCAACACAAAGAAACGACACATATTTGAGGTGATGGATATGCTAATTACCCTGGTTCGGTTATTACGCAATGTAT
ACATGTATCAAAACATCACACTGTACCACATAAATATGTATATTTATTGTCATTAAGCAAAATAAAAC
AAAAAACCTTCATCTAATACTTTGGATCATTGTGAAAAATAAATTCCTGAAGTATAAAGCATCT

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FIGURE 2319

MASGILVNVKEEVTCPICLELLTQPLSLDCGHSFCQACLTANHKKSM LDKGESSCPVCRI SYQPENIRPNRHVAN
LVEKLREVKLSPEGQKVDH CARHGEKLLLF CQEDGKVICWLCERSQEHRGHHTFP TEEVAQEYQVKLQA ALEMLR
QKQQEAELEADIREEKASWKTQIQYDKTNVLADFEQLRDILDWEESNELQ NLEKEEEDILKSLTNSETEMVQQT
QSLRELISDLEHRLQG SVMELLQGV DGVIKRTENVTLKKPETFPKNQRRVFRAPDLKGMLEVFRELT DVRRYWVD
VTVAPNNISCAVISEDKRQVSSPKPQIIYGARGTRYQTFVNFNYCTGILGSQSITSGKHYWEVDVSKKTAWILGV
CAGFQPDAMCNIEKNENYQPKYGYWVIGLEEGVKCSAFQDSSFHTPSV PFFIVPLSVIICPDRVG VFLDYEACTVS
FFNITNHGFLIYKFSHCSFSQPVFPYLNPRKCGVPM TL CSPSS

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FIGURE 2320A

ATCTCTATCCTTCTTCTGGTCCTTCCTAGAAAATCAGGTGGAGATGATAGTGGCTTGCATGATGGTGGTAGAGCT
GGAGGTGCAGGGCAAAGGTCAGATTCTGAATATATTTTGAAAGTAAAGGCAACAAGATTTCTGACAGATTGATT
ATGGTGTGTCAAAGAAAAGAGAGGAATGCAGGATGATTCAGTGTGTTTTGTTGACAACATAAGTCTGGAGCTGCC
AACTGGATGCAGAAGTTCAGTGGAGGGCCAGCCTGGGGAAGGATCAGGAGCAGGTTAGGCATGTTAAGCTTGA
GATGCTGTAAACATCCAGATAGGAATGTCAAAGATGCACTTGTGTTAAGAGTCAGGAATGCAAGAGGGAATT
TTAGGCTAGAAAACAAAAGTTAGAAATTATTCGATACAGATGGTATTTAAAGCTGTGTGACTGACTGACATGACA
GAAGTGGCGAGAATAGACTGAGAAGTCCAAGGAATGAGCCTTGGACCACTCCAGTGTAGGTAAGTAGTTGAAAA
AAAGAGAGAGAGAGAAGGCATCAAAGGAGACTGAGGAAGAGTGATCAGGAAAGCATAGGAAAATCCGAGAAAACAT
ATGGTGTCTTGAATCTATATGAAAAAGATATATTGAGAAAGACAGAGTGATAAATCTGTCAAATTATTGAATTT
GTCAGGTAAAATAAGAACAGAGAATTGATCTTTGGACTTAGCAAAGCAGAGATTATCAGTGACTTTTATAAAAAAT
AGTTTCGGTAGTGTGGAAAGATCAAACCTCTGTTTAGAGTGGGTTTCAGAGAGAACAACAGGAATTGAAGAAGTA
ATAAATTTGCCAACCACTTAGCTCCAAAGGAAAAGAGGGAATATGATGGTAGCTGGCAGGGGAAGTGTGGTC
AAGAGAGGTTTTTTGTTTTGTTTTCAAGATGGAAGAAAATAACAGTATGTATGTAAGCTCACAGGAGGGATCCAGC
AGGCATGGGGAATTTGATGATATAGGACAGAAAGGGAAGAAATGGCTCCTTGTGAAAGTGAAGGGGATGGGATCT
ACAGGATGAACATGCAACAAAGACTGGCTGCAAAGAGAGGCATGAATAGTTCATTTACAGAAAACAGCAAAGGCA
GAGTGTGGTACAGATGCTGGTAAGTGGAAAAATATCATGGTAGGAGGTTATGGAGTTCATTCTAAACACTTCA
ACTTCATCAGTGAAATAAGCACGGTAATTTAGCAGAATGTGAAGATGTAAAAGAACAGAAATTTGAGAAAACAGAC
GATATGAAATAATTATTAGAAAAGCAGAGACTGAAGAACTGTCTATCTCCTTATGTGCTAATGAGTTTAAATAATG
TCCTCCAGTCACCACAAGCCTTCTTTCAAACCTACACAATTTCAAACCTGCTCCGTCTCAGAGTATCTTGAAATAAT
GATCTGACCCCTGTTAGACCAGTGAAGGGAAGGAATTTGGGTTGATTTAAGAAGAGAACTCTCATGGTCATGGT
AGACTGATATGGAGAGAAAACATTTTGGGAAAAATACTCAACTAAATTCATTTCTACTCCAGCATGCAGTTTCA
AGTCAAGTTCACCTTAGCTCCAGGTGGCAGGCAGAGCAGGATGCAGAGGCACAGCACAAAGTAAGGGATCCAATG
ACTGAGTCAAGAATTACATAACCTGGCCAGACAGCTGGTACATGGGAAAGTGCTAAGAGGGCACCAACAGCGTTC
CTCCTCCCCAAGGAGCATAATGTGATGGTTCTGCGGCCCTGGCTGACTCTCGCCGCTCTGGAGATAATTGGG
TTCAGTGCCACCTGGACCAGAACTGGGGATGCGGAAGCAACCTGCCAGACACGCGGAGGTTTCAGGGCTGAGATG

GATCTTGAGGCGGCAAAGAACGGAACAGCCTGGCGCCCCACGAGCGCGGAGGGCGACTTTGAACTGGGCATCAGC
AGCAAAACAAAAAGGAAAAAACGAAGACAGTGAAAATGATTGGAGTATTAAACATTGTTTCGATACTCCGATTGG
CAGGATAAATTGTTATGTCGCTGGGTACCATCATGGCCATAGCTCACGGATCAGGTCTCCCCCTCATGATGATA
GTATTTGGAGAGATGACTGACAAATTTGTTGATACTGCAGGAACTTCTCCTTCCAGTGAATTTTCCCTTGTGCG
CTGCTAAATCCAGGCAAAATTTGGAAGAAGAAATGACTAGATATGCATATTACTACTCAGGATTGGGTGCTGGA
GTTCTTGTGCTGCCTATATACAAGTTTCATTTTGGACTTTGGCAGCTGGTGCAGAGATCAGGAAAATTAGGCAG
AAGTTTTTTCATGCTATTCTACGACAGGAAATAGGATGGTTTGACATCAATGACACCAGTGAACCTCAATACGCGG
CTAACAGATGACATCTCCAAATCAGTGAAGGAATTTGGTGACAAGGTTGGAATGTTCTTTCAAGCAGTAGCCAG
TTTTTTCAGGATTCATAGTGGGATTCATCAGAGGATGGAAGCTACCCCTTGTGATAATGGCCATCAGCCCTATT
CTAGGACTCTCTGCAGCCGTTTGGGCAAAGATACTCTCGGCATTAGTGACAAAAGAACTAGCTGCTTATGCAAAA
GCAGGCGCGGTGGCAGAAGAGGCTCTGGGGGCCATCAGGACTGTGATAGCTTTTCGGGGGCCAGAACAAAGAGCTG
GAAAGGTATCAGAAACATTTAGAAAATGCCAAAGAGATTGGAATTAAGAAAGCTATTTTCAGCAACATTTCCATG
GGTATTGCCTTCTGTAAATATATGCATCATATGCACTGGCCTTCTGGTATGGATCCACTCTAGTCATATCAAAA
GAATATACTATTGGAATGCAATGACAGTTTTTTTTCAATCCTAATTGGAGCTTTCAGTGTGGCCAGGCTGCC
CCATGTATTGATGCTTTTGCCAATGCAAGAGGAGCAGCATATGTGATCTTTGATATTATTGATAATAATCCTAAA
ATTGACAGTTTTTTCAGAGAGAGGACACAAACAGACAGCATCAAAGGGAATTTGGAGTTCAATGATGTTCACTTT
TCTTACCCTTCTCGAGCTAACGTCAAGATCTTGAAGGGCCTCAACCTGAAGGTGCAGAGTGGGCAGACGGTGGCC
CTGGTTGGAAGTAGTGGCTGTGGGAAGAGCACAAACGGTCCAGCTGATACAGAGGCTCTATGACCTGATGAGGGC
ACAATTAACATTGATGGGCAGGATATTAGGAACCTTTAATGTAACTATCTGAGGGAATCATTGGTGTGGTGAAGT
CAGGAGCCGGTGCTGTTTTCCACCACAATTGCTGAAAATATTTGTTATGGCCGTGGAAATGTAACCATGGATGAG
ATAAGAAAGCTGTCAAAGAGGCCAACGCCTATGAGTTTATCATGAAATTACCACAGAAAATTTGACACCCTGGTT
GGAGAGAGAGGGGCCAGCTGAGTGGTGGGCAGAAGCAGAGGATCGCCATTGCACGTGCCCTGGTTTCGCAACCCC
AAGATCCTTCTGCTGGATGAGGCCACGTCAGCATTGGACACAGAAAGTGAAGCTGAGGTACAGGCAGCTCTGGAT

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FIGURE 2320B

AAGGCCAGAGAAGGCCGGACCACCATTGTGATAGCACACCGACTGTCTACGGTCCGAAATGCAGATGTCATCGCT
GGGTTTGAGGATGGAGTAATTGTGGAGCAAGGAAGCCACAGCGAACTGATGAAGAAGGAAGGGGTGTACTTCAAA
CTTGTC AACATGCAGACATCAGGAAGCCAGATCCAGTCAGAAGAATTTGAACTAAATGATGAAAAGGCTGCCACT
AGAATGGCCCCAAATGGCTGGAAATCTCGCCTATTTAGGCATTCTACTCAGAAAAACCTTAAAAATTACAAAATG
TGTCAGAAGAGCCTTGATGTGGAAACCGATGGACTTGAAGCAAATGTGCCACCAGTGTCTTTCTGAAGGTCTTG
AAACTGAATAAAACAGAAATGGCCCTACTTTGTGCTGGGAACAGTATGTGCCATTGCCAATGGGGGGCTTCAGCCG
GCATTTTCAGTCATATTCTCAGAGATCATAGCGATTTTGGACCAGGCGATGATGCAGTGAAGCAGCAGAAAGTGC
AACATATTCTCTTTGATTTCTTATTTCTGGGAATTATTTCTTTTTTACTTTCTTCCTCAGGGTTTCACGTTT
GGGAAAGCTGGCGAGATCCTCACCAGAAGACTGCGGTCAATGGCTTTTAAAGCAATGCTAAGACAGGACATGAGC
TGGTTTGATGACCATAAAAAACAGTACTGGTGCATTTCTACAAGACTTGCCACAGATGCTGCCCAAGTCCAAGGA
GCCACAGGAACCAAGGTTGGCTTTAATTGCACAGAATATAGCTAACCTTGGAAGTGGTATTATCATATCATTATC
TACGTTTGGCAGTTAACCCTATTGCTATTAGCAGTTGTTCCAATTATTGCTGTGTGTCAGGAATTGTTGAAATGAAA
TTGTTGGCTGGAAATGCCAAAAGAGATAAAAAAGAACTGGAAGCTGCTGGAAAGATTGCAACAGAGGCAATAGAA
AATATTAGGACAGTTGTGTCTTTGACCCAGGAAAGAAAATTTGAATCAATGTATGTTGAAAAATTGTATGGACCT
TACAGGAATTCTGTGCAGAAGGCACACATCTATGGAATTACTTTTAGTATCTCACAAGCATTATGTATTTTTCC
TATGCCGGTTGTTTTCGATTTGGTGCATATCTCATTGTGAATGGACATATGCGCTTCAGAGATGTTATTCTGGTG
TTTTCTGCAATTGTATTTGGTGCAGTGGCTCTAGGACATGCCAGTTCATTTGCTCCAGACTATGCTAAAGCTAAG
CTGTCTGCAGCCCACTTATTCATGCTGTTTTGAAAGACAACCTCTGATTGACAGCTACAGTGAAGAGGGGCTGAAG
CCTGATAAATTTGAAGGAAATATAACATTTAATGAAGTCGTGTTCAACTATCCCACCCGAGCAAACGTGCCAGTG
CTTCAGGGGCTGAGCCTGGAGGTGAAGAAAGGCCAGACACTAGCCCTGGTGGGCAGCAGTGGCTGTGGGAAGAGC
ACGGTGGTCCAGCTCCTGGAGCGGTTCTACGACCCCTTGGCGGGGACAGTGTGTTGTTGACTTTGGTTTTAGCTT
CTCGATGGTCAAGAAGCAAAGAACTCAATGTCCAGTGGCTCAGAGCTCAACTCGGAATCGTGTCTCAGGAGCCT
ATCCTATTTGACTGCAGCATTGCCGAGAATATTGCCATATGGAGACAACAGCCGGTTGTATCACAGGATGAAATT
GTGAGTGCAGCCAAAGCTGCCAACATACATCTTTTCATCGAGACGTTACCCACAAATATGAAACAAGAGTGGGA
GATAAGGGGACTCAGCTCTCAGGAGGTCAAAAACAGAGGATTGCTATTGCCCGAGCCCTCATCAGACAACCTCAA
ATCCTCCTGTTGGATGAAGCTACATCAGCTCTGGATACTGAAAGTGAAAAGGTTGTCCAAGAAGCCCTGGACAAA
GCCAGAGAAGGCCGCACCTGCATTGTGATTGCTCACCCTGTCCACCATCCAGAATGCAGACTTAATAGTGGTG
TTTCAGAATGGGAGAGTCAAGGAGCATGGCAGCATCAGCAGCTGCTGGCACAGAAAGGCATCTATTTTCAATG
GTCAGTGTCCAGGCTGGGACACAGAACTTATGAACCTTTGCTACAGTATATTTAAAAATAAATTCAAATTATTC
TACCCATTTT

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FIGURE 2321

MDLEAAKNGTAWRPTSAEGDFELGISSKQKRKKTIVKMIGVLTILFRYSDWQDKLFMSLGTIMATAHGSGLPLMM
IVFGEMTDKFVDTAGNFSFPVNFSLSLNPGKILEEEMTRYAYYYSGLGAGVLVAAYIQVSFWTLAAGRQIRKIR
QKFFHAILRQEIGWFDINDTTELNTRLTDDISKISEGIGDKVGMFFQAVATFFAGFIVGFIRGWKLTIVIMAISP
ILGLSAAVWAKILSAFSDKELAAAYAKAGAVAEALGAIRTVIAFGGQNKELERYQKHLENAKEIGIKKAISANIS
MGIAFLLIYASYALAFWYGSTLVISKEYTIGNAMTVFFSILIGAFSVGQAAPCIDAFANARGAAYVIFDIIDNNP
KIDFSERGHKPDNIKGNLEFNDVHFSYPSRANVKILKGLNLKVQSGQTVALVGSSGCGKSTTVQLIQRLYDPDE
GTINIDGQDIRNFNVNYLREIIGVVSQEPVLFSTTIAENICYGRGNVTMDEIKKAVKEANAYEFIMKLPQKFDTL
VGERGAQLSGGQKORIAIARALVRNPKILLDEATSALDTESEAEVQAALDKAREGRTTIVIAHRLSTVRNADVI
AGFEDGVIVEQGSSELMMKEGVYFKLVNMQTSQSIIQSEEFELNDEKAATRMAPNGWKSRLFRHSTQKNLKSQ
MCQKSLDVETDGLEANVPPVSFLKVLKLNKTEWPYFVVGTVCAIANGGLQPAFSVIFSEIIAIFGPGDDAVKQOK
CNIFSLIFLFLGIIISFFTFLLQGFTFGKAGEILTRRLRSMFAKMLRQDMSWFDDHKNSTGALSTRLATDAAQVQ
GATGTRLALIAQNIANLGTGIIISFIYGWQLTLLLLAVVP IIAVSGIVEMKLLAGNAKRDKKELEAAGKIATEAI
ENIRTVVSLTQERKFESMYVEKLYGPRNSVQKAHIYGITFSISQAFMYFSYAGCFRFGAYLIVNGHMRFRDVIL
VFSIVFGAVALGHASSFAPDYAKAKLSAAHLFMLFERQPLIDSYSEEGLKPKDFEGNITFNEVVFNYPTRANVP
VLQGLSLEVKKGQTLALVGSSGCGKSTVVQLLERFYDPLAGTVFVDFGFQLLDGQEAKKLVQWLRAQLGIVSQE
PILFDCSIAENIAYGDNRRVVSQDEIVSAAKAANIHPFIETLPHKYETRVGDKGTQLSGGQKORIAIARALIRQP
QILLDEATSALDTESEKVVQEALDKAREGRTICIVIAHRLSTIQNADLIVVFQNGRVKEHGHQQLLAQKGIYFS
MVSQVAGTQNL

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FIGURE 2322

TCTCTCTGTACCTCACCTTCCCTGTGCCACATGGGCCCTCTCTCTCTGCCAGGACGCTGCGGCTCTGGGGAC
CTCGGAGCCTGGGGGTGGCTCTGGGAGTCTTCATGACCATTGGCTTTGCACTCCAGCTCTTGGGAGGGCCCTTCC
AGAGGAGGCTACCTGGGCTACAGCTCCGACAGCCCTCGGCCCCATCCCTACGACCAGCCCTTCCGTCTGCCAC
CCCGGCAGCGACTGGTGTTCCTGAAGACACATAAATCCGGGAGCAGCTCTGTGCTGAGCCTGCTTCACCGCTATG
GGGACCAGCACGGGCTGCGCTTCGCCCTCCCTGCCGCTACCACTTGGCTACCCAAAGCTCTTCCAGGCCTCTA
GGGTAAAAGGCTACCGCCACAGGCTGGAGGCACCCAGCTCCCTTCCACATCCTCTGTCAACACTTGAGGTTCA
ACCTGAAAGAGGTACTTCAGGTCATGCCCTTCTGACAGCTTCTTTTTTCCATTGTCCGAGACCCAGCGGCTCTGG
CTCGCTCTGCCTTCTCCTACTATAAATCCACCTCATAGCCTTCCGCAAGTCACCATCTTTGGCTGCCTTCTCTGG
CCAATCCTCGAGGCTTCTACAGGCTGGGGCCGTTGGGACCCTACGCTCGCAACTTACTATGGTTTGACTTTG
GCCTGCCCTTTCCCCCAGAGAAGAGGGCCAAGAGAGGAATATTTCATCCCCCAGAGACCCCAACCCCCACAGC
TGCAGGTCTTGCCTTCTGGTGCTGGCCCTCGAGCCCCAAACCTCAATCCCAATGCCCTCATCCATCCTGTTTCCA
CTGTTACTGATCATCGCAGCCAGATATCAAGCCCTGCCTCTTTTCGATTGGGGTCTTCATCCTTTCATCCAGTGGG
GTCTGGCATGGCTGGACTCTGTCTTTGACCTGGTCATGGTGGCTGAGTACTTCGATGAGTCATTGGTTCTGTCTGG
CAGATGCCCTGTGCTGGGGTCTAGATGACGTGGTGGGCTTCATGCACAATGCCCAGGCTGGACATAAGCAGGGCC
TCAGCACTGTGAGCAACAGTGGACTGACTGCGGAGGACCGGCAGCTGACTGCACGGGCCGAGCCTGGACAACCC
TGGACTGGGCTCTCTATGTCCACTTCAACCGCAGTCTCTGGGCACGGATAGAGAAATACGGCCAGGGCCGGCTGC
AGACAGCTGTGGCCGAGCTCCGGGCTCGCCGAGAGGCCCTAGCGAAACATTGTCTGGTAGGGGGTGAGGCTTCTG
ACCCCAAATACATCACTGATCGCCGGTTCCGCCCTTCCAGTTTGGGTCAGCTAAGGTTTGGGCTATATACTTC
GGAGAGGATTGAGCCCCAAGACCAAGAGGAATGTGAGCGCTAGCTACCCCTGAGCTCCAGTACAAGGACAAGC
TGGATGCCAAGCAGTTCCCCCTACCGTCTCACTGCCCTCAAGACTTCAAGGCCACTCTCCCCATTAACATCAG
ACTACAGATTTAGGTGGAAGAGCAGCCATGTTTGAAGGGCACATGTGATGAGTGGGGGGCAGCAAGATGCCATTT
CTGCATCTCCCAGAAGGGATGAGTCTTTGTCCCGATGCAAGCCCCCTCTTCGCTGGGCTCCCAGCAGTGCTTCCC
TCCTCCACCTCCACTCATTTTGTCTTTTCCCCCACTTTTTTTTTTTTTTGAAACGGAGTCTTGCTCTGTCCCC
CAGGCTGGAGTGAGTGGCATGATCTCGGCTCACTGCAACCTCTGCCTCCCAGGTTCAAGCGATTCTCTGCCTC
AGCCTCCAGAGTAGCTAGGATTACAGATACGTGCCACCATACCCGGCTAATTTTATATTTTAGAGACAGGGAT
TCAACATGTTGGTTAGGCTGGTCTTGAACCTCCTACCTCAGGTGATCCACATGACTCTGCCTCCCAAAGTGCTGC
CATTACAGGCGTGAGCCACTAGGCCTGACCTCCCCTTCCCCTTCCCTGCCCAAGGCAGATCCACATCACCAGAG
CTCCCTAGAGGGGCAAAAGATGGAGTGAGCCACAGGAAGTTTGGGGCGTGGTGAGTTGGAATGATACGTCCATT
CTCTATGAAATATTTGCTACTAGACTGTTTCTCTCTGACATGTTTGTGAATGAATAAATAATTTGAAACT

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FIGURE 2323

MGPLSPARTLRLWGPRSLGVALGVFMTIGFALQLLGGPFQRRLPGLQLRQPSAPSLRPALPSCPPRQRLVFLKTH
KSGSSSVLSLLHRYGDQHGLRFALPARYQFGYPKLFQASRVKGYRPQGGGTQLPFHILCHHLRFNLKEVLQVMP
DSFFFSIVRDPAAALARSASFYYKSTSSAFRKSPSLAAFLANPRGFYRPGARGDHYARNLLWFDFGLPFPPEKRAK
RGNIHPPRDPNPPQLQVLPSGAGPRAQTLNPNALIHVSTVTDHRSQISSPASFDLGSSSFIQWGLAWLDSVFDL
VMVAEYFDESLVLLADALCWGLDDVVGFMHNAQAGHKQGLSTVSNSTGLTAEDRQLTARARAWNLDWALYVHFNR
SLWARIEKYQGRLQTAVAEELRARREALAKHCLVGGEASDPKYITDRFRPFQFGSAKVLGYILRRGLSPQDQEE
CERLATPELQYKDKLDAKQFPPTVSLPLKTSRPLSP

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FIGURE 2324

CTAAAGTGGAGCCCAGCGGCGGGTGTGAGAGTCCGTAAGGAGCAGCTTCCAGGATCCTGAGATCCGGAGCAGCCG
GGGTCGGAGCGGCTCCTCAAGAGTTACTGATCTATGAAATGGCAGAGAATGGAAAAAATTGTGACCAGAGACGTG
TAGCAATGAACAAGGAACATCATAATGGAAATTCACAGACCCCTCTTCAGTGAATGAAAAGAAGAGGAGGGAGC
GGGAAGAAAGGCAGAATATTGTCTGTGGAGACAGCCGCTCATTACCTTGCAATTTTTCTCTGGAAATCCTTG
TAATCTTGAAGGAATGGACCTCAAAATTATGGCATCGTCAAAGCATTGTGGTGTCTTTTTTACTGCTGCTTGCTG
TGCTTATAGCTACGTATTATGTTGAAGGAGTGCATCAACAGTATGTGCAACGTATAGAGAAACAGTTTCTTTTGT
ATGCCTACTGGATAGGCTTAGGAATTTTGTCTTCTGTGTGGGCTTGGAAACAGGGCTGCACACCTTCTGCTTTATC
TGGGTCCACATATAGCCTCAGTTACATTAGCTGCTTATGAATGCAATTCAGTTAATTTTCCCGAACCCCTATC
CTGATCAGATTATTTGTCCAGATGAAGAGGGGACTGAAGGAACCAATTTCTTTGTGGAGTATCATCTCAAAAGTTA
GGATTGAAGCCTGCATGTGGGGTATCGGTACAGCAATCGGAGAGCTGCCTCCATATTTTCATGGCCAGAGCAGCTC
GCCTCTCAGGTGCTGAACCAGATGATGAAGAGTATCAGGAATTTGAAGAGATGCTGGAACATGCAGAGTCTGCAC
AAGACTTTGCCTCCCGGGCCAACTGGCAGTTCAAAAAGTAGTACAGAAAGTTGGATTTTTTGGAAATTTTGGCCT
GTGCTTCAATTCAAATCCTTTATTTGATCTGGCTGGAATAACGTGTGGACACTTTCTGGTACCTTTTGGACCT
TCTTTGGTGCAACCTAATTTGAAAAGCAATAATAAAATGCATATCCAGAAAATTTTTGTTATAATAACATTCA
GCAAGCACATAGTGGAGCAAATGGTGGCTTTCATTGGTGTGTCTCCCGGCATAGGTCCATCTCTGCAGAAGCCAT
TTCAGGAGTACCTGGAGGCTCAACGGCAGAAGCTTCAACCACAAAAGCGAAATGGGCACACCACAGGGAGAAAAC
GGTTGTCTGGATGTTTGAAGGTTGGTGTGTGTGTTACTTTCATCTATCTATCATTAACTCCATGG
CACAAAGTTATGCCAAACGAATCCAGCAGCGGTTGAACTCAGAGGAGAAAACATAAGTAGAGAAAGTTTAA
ACTGCAGAAATTTGGAGTGGATGGGTTCTGCCTTAAATTTGGGAGGACTCCAAGCCGGGAAGGAAATTCCTTTTC
CAACCTGTATCAATTTTACAACTTTTTTCCTGAAAGCAGTTTAGTCCATACTTTGCACTGACATACTTTTCTCT
TCTGTGCTAAGGTAAGGTATCCACCCTCGATGCAATCCACCTTGTGTTTTCTTAGGGTGGAAATGTGATGTTTCTCAGC
AGCAAACCTTGCAACAGACTGGCCTTCTGTTTGTACTTTCAAAAGGCCACATGATACAAATAGAGAATTTCCAC
CGCACAAAAAAGTTTCTAAGTATGTTAAATATGTCAAGCTTTTAGGCTTGTACAAATGATTGCTTTGTTTCT
CTAAGTCATCAAAATGTATATAAATATCTAGATTGGATAACAGTCTTGCATGTTTATCATGTTACAATTTAATA
TTCCATCCTGCCCAACCTTCTCTCCCATCTCAAAAAAGGGCCATTTTATGATGCATTGCACACCCTCTGGGG
AAATTGATCTTTAAATTTTGAGACAGTATAAGGAAAATCTGGTTGGTGTCTTACAAGTGAGCTGACACCATTTT
TATTCTGTGTAATTTAGAATGAAGTCTTGAAAAAACTTTATAAAGACATCTTAATCATTCCAAAATTTGTGTCG
TTTTCTTGAGCGTTTTGATTTTTTACTTTTAGCTTATACCAGCTGAATGGCAGCCTTGCCTAATCCACCTACAAC
AAGAATTTCTTAAGCTTTCTTTATTTGCATGAGAGAGCCACTACCAAGGCATGTTTGTATGCTGAAACTGGG
CTGCTGCATACTGCTAAATGGCACCTCTGGGATTGGCCTACCTGGGGATTCTTGGTTTGTGAAAACAGGAGAGG
AGAAATATCTCATACAAGTGAAGGATACTGGAGAGAGAAATTACCCATTTCTAAAAAAAACCACTCTGTGCG
TATCTGTGTTAATGTTTTCTAGCATGTACTCTGGTTCAACAGACACAAATTTATATGTTAATCCAGTTTTCTTG
CCGTTCTGTAAGTGTTTTTATTTCTAGTGTGATTTTTTCCATTGGGATGTTTTTGATTGAACCTGTTTCTTTGT
TTGCTTGGGAGGAAAATAACAATTTTACTTTTTCTTAAAAAAA

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FIGURE 2325

MAENGKNCQRRVAMNKEHHNGNFTDPSSVNEKKRREREERQNIVLWRQPLITLQYFSLEILVILKEWTSKLWHR
QSIVVSFLLLLAVLIATYYVEGVHQQYVQRIEKQFLYAYWIGLGILSSVGLGTGLHTFLLYLGPFIASVTLAAY
ECNSVNFPEPPYPDQIICPDEEGTEGTISLWSIISKVRIEACMWGIGTAIGELPPYFMAARAARLSGAEPDDEEYQ
EFEEMLEHAESAQDFASRAKLAVQKLVQKVGFFGILACASIPNPLFDLAGITCGHFLVPFWTFFGATLIGKAIK
MHIQKIFVIITFSKHIVEQMVAFIGAVPGIGPSLQKPFQEYLEAQRQKLHHKSEMGTGPQGENWLSWMFEKLVVVM
VCYFILSIINSMAQSYAKRIQQRLNSEKTK

ACTCAGATCGCTTCTTGTGGTATGCTGTAGCGGCAGTGGCCGCCGCGGAGCAGTCTGAGCCCGACGATGAGGCC
GGGGACGGGAGCTGAGCGTGTGAGGCGCTCATGATGGGGACCCTGGCATGCATTATGCCCAATGGGAATGCACCC
TATGGGTCAGAGAGCGAATATGCCTCCTGTACCTCATGGAATGATGCCGCAGATGATGCCCCCTATGGGAGGGCC
ACCAATGGGACAAATGCCTGGAATGATGTCGTGAGTAAATGCCTGGAATGATGATGTCTCATATGTCTCAGGCTTC
CATGCAGCGTGCCTTACCCTGTAACCTAAACGGATATTCACTCTGAAGTGGGATAAATGAAGATGTGGAGTTTCAT
GTTTCATGTAGGGCAGGTTTTTGCCACTATAGTGAGTTTTTGGTACCATACTTTGAAAAAGTTGGCTTTCAGAGGGTT
TTGGTTTCCAGAATTGTGGGTAAAGGATTGAGGACCTTGTGTACAGTTGGTGACCATATAACATTTAAACTACTC
CCGTAGTCTCGGTTGCTGATCTCTTTTACAATTTATAGCAAGCTCGGGGAAGTGGAGCCACTAAAAGTTTTGCTA
AGAATATGAGTCAGAGGCTTGAGGATTATGCATAGCAGCCAGGAGTAAATAGTATGGATGTAGCAGCAGGTACAG
CATCTGGTGCAAAATCAATGTGGACTGAACATAAATCACCCTGATGGAAGGACTTACTACTACAACACTGAAACCA
AACAGTCTACCTGGGAGAAACAGATGATCTTAAAAACCTGCTGAGCAACTCTTATCTAAATGCCCTGGAAGC
AATACAAATCAGATTCTGGAAAGCCTTACTATTATAATTCCTAAACAAAAGAATCTCGCTGGGCCAAACCTAAAG
AACTTGAGGATCTTGAAGGATACCAGAATACCATTGTTGCTGGAAGTCTTATTACAAAATCAAACCTGCATGCAA
TGATCAAAGCTGAAGAAAGCATGAAGCAAGAAGAGTGCACCACAACATCAACAGCCCCAGTCCCTACAACAGAAA
TTCCGACCACAATGAGCACCATGGCTGCTGCCGAAGCAGCAGCTGCTGTTGTTGCAGCAGCAGCAGCGGCAGCAG
CAGCAGCAGCTGCAGCCAATGCTAATGCTTCCACTTCTGCTTCTAATACTGTCAGTGGAACTGTTCCAGTTGTTT
CTGAGCCTGAAGTTACTTCCATTGTTGCTACTGTTGTAGATAATGAGAATACAGTAACCTATTTCAACTGAGGAAC
AAGCACAACCTTACTAGTACCCCTGCTATTCAAGGATCAAAGTGTGGAAGTATCCAGTAATACTGGAGAAGAAACAT
CTAAGCAAGAACTGTAGCTGATTTTACTCCCAAAAAAGAGAGGAGAGCCCAACCAGCAAAGAAAAACATACA
CTTGGAATACAAAGGAAGAGGCAAGCAAGCTTTTAAAGAATTATTGAAAGAAAAGCGGGTACCATCGAATGCTT
CATGGGAGCAGGCTATGAAAATGATTATTAATGATCCACGATACAGTGCTTTGGCAAAGTTAAGTGAAAAAAGC
AAGCCTTTAATGCCTATAAAGTCCAGACAGAAAAA

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FIGURE 2327

MDVAAGTASGAKSMWTEHKSPDGRYYYYNTETKQSTWEKPDDLKTPAEQLLSKCPWKEYKSDSGKPYYYNSQTKE
SRWAKPKELEDLEGYQNTIVAGSLITKSNLHAMIKAEESSKQEECTTTSTAPVPTTEIPTTMSTMAAAEAAA VV
AAAAAAAAAAAAANANASTSASNTVSGTVPVPEPEVTSIVATVVDNENTVTISTEEQAQLTSTPAIQDQSVEVS
SNTGEETSKQETVADFTPKEEEESQPAKKTYTWNTKEEAKQAFKELLKEKRVPSNASWEQAMKMIINDPRYSAL
AKLSEKKQAFNAYKVQTEKKKK

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FIGURE 2328A

CGGCGCAGGCGGCGGCGTCCGAGGAGATTTAATCCAGAGACTGACTTCACTATAGAACCCACAGTTGTATCAATG
GTTGGGGAAAGATAGTGGCAACAGGCAAAGGAGAAACAGCTCTGACATACAAAGAAATGAGTATGCTAAAGCCA
AGTGGGCTTAAGGCCCCACCAAGATCCTGAAGCCTGGAAGCACAGCTCTGAAGACACCTACGGCTGTTGTAGCT
CCAGTAGAAAAAACCATATCCAGTGAAAAAGCATCAAGCACTCCATCATCTGAGACTCAGGAGGAATTTGTGGAT
GACTTTTCAGTTGGGGAGCGAGTTTGGGTGAATGGAAATAAGCCTGGATTTATCCAGTTTCTTGGAGAAACCCAG
TTTGACCAGGCCAGTGGGCTGGAATTGTTTTAGATGAACCCATAGGCAAGAACGATGGTTTCGGTGGCAGGAGTT
CGGTATTTCCAGTGTGAACCTTTAAAGGGCATATTTACCCGACCTTCAAAGTTAACAAGGAAGGTGCAAGCAGAA
GATGAAGCTAATGGCTGCAGACAACGCCGCTCCCGAGCTACTTCAACCGCTGTGCACTTCTACGGCCAGCATG
GTGTCTTCTCCCTCCACCCCTTCAAACATCCCTCAGAAACCATCACAGCCAGCAGCAAGGAACCTTCAGCT
ACGCCCTCCGATCAGCAACCTTACAAAACTGCCAGTGAATCTATCTCCAACCTTTTCAGAGGCTGGCTCAATCAAG
AAAGGAGAAAGAGAGCTCAAAATCGGAGACAGAGTATTGGTTGGTGGCTAAGGCTGGTGTAGTCCGGTTTCTT
GGGAGACCGACTTTGCCAAGGGGGAGTGGTGTGGCGTGGAGTTAGATGAGCCACTTGGGAAGAATGATGGCGCT
GTTGCTGGAACAAGGTATTTTCAGTGTCAACCCAAATATGGCTTGTTCGCTCCTGTCCACAAAGTTACCAAGATT
GGCTTCCCTTCCACTACACCAGCCAAAGCCAAGGCCAACGCAGTGAGGCGAGTGATGGCGACCACGTCCGCCAGC
CTGAAGCGCAGCCCTTCTGCCTCTTCCCTCAGCTCCATGAGCTCAGTGGCCTCCTCTGTGAGCAGCAGGCCAGT
CGGACAGGACTATTGACTGAAACCTCTCCCGTTACGCCAGGAAGATCTCCGGTACCCTGCCCTCCAGGAGGCC
CTGAAGGAGAAGCAGCAGCACATTGAGCAGCTGCTGGCGGAACGGGATCTGGAGAGGGCGGAGGTGGCCAAGGCC
ACGAGCCACGTGGGGGAGATAGAGCAGGAGCTAGCTCTGGCCCGGACGGACATGACCAGCATGTCTTGGAATTG
GAAGCCAAAAATGGACCAGCTGCCAACAATGGTGGAAAGCTGTGACAGGGAGAAGGTGGAGCTTCTCAACCAGCTT
GAAGAGGAGAAAAGGAAGGTGAGGACCTTCAGTTCCGGGTTGAAGAAGAATCAATTACCAAGGTGATCTTGAG
ACGCAGACCAAACCTGGAGCATGCCCGCATTAAAGGAGCTTGAACAGAGCCTGCTCTTTGAAAAGACCAAAGCTGAC
AACTCCAGAGGGAGTTAGAAGACACTAGGGTGGCTACAGTTTCAGAAAAGTCACGTATAATGGAAGCTGGAGAAA
GACCTAGCATTGAGAGTACAGGAAGTAGCTGAGCTCCGAAGAAGGCTAGAGTCCAATAAGCCTGCTGGGGATGTG
GACATGTCACTTTCCCTTTTGAAGAGATAAGCTCTTTGCAAGAAAAGTTAGAAGTCACCCGTAAGTACCACAG
AGAGAAAATACTTCTCTGAAGGAGCATTTTGGAGCCCGGAAGAACTCATCAGAAGGAGATAAAGGCTCTGTAT
ACCGCCACGGAAAAGCTTTCCAAAGAGAACGAGTCATTGAAAAGCAAGCTGGAGCATGCCAACAAAGAGAACTCA
GATGTGATAGCTCTATGGAAGTCCAAACTGGAGACTGCCATCGCATCCCACCAGCAGGCGATGGAAGAAGTGAAG
GTATCTTTTCAGCAAAGGGCTTGGAAACAGAGACGGCAGAATTTGCTGAACTAAAAACACAAATAGAGAAAAATGAGA
CTAGATTACCAACAGAAATAGAAAATTTGCAGAATCAACAAGACTCTGAACGGGCTGCCCATGTCTAAAGAGATG
GAAGCCTTGAGGGCTAAACTGATGAAAGTTATTAAAGAAAAGGAAAACAGTCTGGAAGCCATCAGGTGCAAACTG
GACAAAGCAGAAGACCAGCATCTCGTAGAAATGGAAGACACGTTAAACAAATTACAGGAAGCTGAAATAAAGGTA
AAGGAGCTAGAGGTACTGCAAGCCAAATGCAATGAACAAACCAAGGTTATTGATAATTTTACATCACAGCTCAAG
GCTACTGAAGAAAAGCTCTTGATCTTGATGCACTTCGGAAGCCAGTTCGGAAGGTAATCGGAAATGAAGAAA
CTTAGACAGCAGCTTGAGGCAGCTGAGAAACAGATTAAACATTTAGAGATTGAAAAGAATGCTGAAAGTAGCAAG
GCTAGTAGCATTACCAGAGAGCTCCAGGGGAGAGAGCTAAAGCTTACTAACCTTCAGGAAAATTTGAGTGAAGTC
AGTCAAGTGAAAGAGACTTTGGAAGAAAGAACTTCAGATTTTGAAGAAAAGTTTGTCTGAAGCTTCAGAGGAGGCA
GTCTCTGTTTCAGAGAAGTATGCAAGAACTGTAAATAAGTTACACCAAAAGGAGGAACAGTTTAAACATGCTGTCT
TCTGACTTGGAGAAGCTGAGAGAAAACCTTAGCAGATATGGAGGCCAAATTTAGAGAGAAAGATGAGAGAGAAGAG
CAGCTGATAAAGGCAAAGGAAAACTTGAAAATGACATTGCAGAAATAATGAAGATGTCAGGAGATAACTCTTCT
CAGCTGACAAAAATGAACGATGAATTACGTCTGAAAGAAAGAGATGTAGAAGAATTACAGCTAAACCTTACAAAG
GCTAATGAAAATGCAAGTTTTCTGCAAAAAGTATTGAGGACATGACTGTCAAAGCTGAACAGAGCCAGCAAGAA
GCAGCTAAAAAGCATGAGGAAGAAAAGAAAGAAATTGGAGAGGAAATTGTCGGACCTGGAAAAGAAAATGGAAACA
AGCCACAACCAAGTGTGAGGAGCTGAAAGCCAGGTATGAGAGAGCCACTTCTGAGACAAAAACCAAGCATGAAGAA
ATCCTACAGAACCTCCAGAAGACGCTGCTGGACACAGAGGACAAGCTGAAGGGCGCACGGGAGGAGAACAGTGGC
TTGCTGACAGGAGCTGGAGGAGCTGAGAAAGCAAGCCGACAAAGCTGCTCAAACAGCGGAAGATGCCATG
CAGATAATGGAACAGATGACCAAGAGAAGACTGAGACTCTGGCCTCCTTGGAGGACACCAAGCAACAAATGCA
AAACTACAGAATGAATTGGACACACTTAAAGAAAACAACCTTGAAAAATGTGGAAGAGCTGAACAAATCAAAAGAA
CTCCTGACTGTAGAGAATCAAAAAATGGAAGAATTTAGGAAAGAAATAGAAACCTAAAGCAGGCAGCAGCTCAG

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FIGURE 2328B

AAGTCCCAGCAGCTTTTCAGCGTTGCAAGAAGAGAACGTTAACTTGCTGAGGAGCTGGGGAGAAGCAGGGACGAA
GTCACAAGTCATCAAAGCTGGAAGAAGAAAGATCTGTGCTCAATAATCAGTTGTTAGAAATGAAAAAAGAGAA
TCCAAGTTCATAAAAGACGCAGATGAAGAGAAAGCTTCCTTGAGAAATCCATCAGTATAACTAGTGCCTTACTC
ACAGAAAAGGATGCCGAGCTGGAGAACTGAGAAATGAGGTACAGTGCTCAGGGGAGAAAACGCTCTGCCAAG
TCCTTGCAATTCAGTTGTTTCAGACTCTAGAGTCTGATAAGGTGAAGCTCGAGCTCAAGGTAAAGAACTTGGAGCTT
CAACTCAAAGAAAACAAGAGGCAGCTCAGCAGCTCCTCAGGTAATACAGACACTCAGGCAGACGAGGATGAAAGA
GCCCAGGAGAGTCAGATTGATTTCCCTAAATTCAGTAATAGTGGACCTTCAAAGGAAGAATCAAGACCTCAAGATG
AAGGTGGAGATGATGTCAGAAGCAGCCCTGAATGGGAACGGGGATGACCTAAACAATTATGACAGTGATGATCAG
GAGAAACAGTCCAAGAAGAAACCTCGCCTCTTCTGTGACATTTGTGACTGCTTTGATCTCCACGACACAGAGGAT
TGTCCTACCCAGGCACAGATGTCAGAGGACCCTCCCCATTCCACACACCATGGCAGTCGGGGTGAGGAACGCCCA
TACTGTGAAATCTGTGAGATGTTTGGACACTGGGCCACCAACTGCAATGACGACGAAACCTTCTGATGAAGCCTC
CAGTGGAGAATCGGCTTGCTCAGACGCACTCGCATTGACACAACGTAACACCAGCATTGTGTGTGCAGACTTCA
GGAGAACTCATGTTATTTTTTAACCCCGTCAACAAATCTAGGAAAATATTTTGATCTTCAACAAATGCCCCTTA
GTCTCCCCGTATGAGTTAGAATAATAAATATTTAGTAGGTGAGTTTTACCTCGAATTTTGTTCCTTGATTTTT
ACGTTTGAAGACATTGCACCAGATGCCATTACATTTATTGGCCCCCGACCTTGTAAGAAAACCCCTACCCCTCAC
AATACCTTATTTAAGTAACTTTAAATTATGCCGTTACTTTTTCATATTTGCACCTAAGATATTTCCAGGCTGCATT
TGTATATTTAGATTTTTTGGTTAAGCTTTGACACTGGAATGAGTTGAAAAATGTGCCATTTTGCATTTTCATCT
ACTCATTTAAAGTATTTTATTCTTATTCAAAGAAATATCTGAGCTCTTGCACCTACCTGTTATCAGTAGTGCCTT
TACTTCAGGCTTGATAATACTTAGGTGTGATTATAAATCATGAAGCAGGTAAAGGGAGGGGCAAGCCCCAACT
GCTGTGGGGACATTTTATAATCTATATGCTGCACCCACTTAATCTACTGTGGTGTGTTTGTGTTATTAGTTTGCAT
AATTTAGCTTCTATATATTGTATGTATATATTTTTTAAAAATCTATATTTGGGAAAAAACATACACAATGTG
TCTTTCTTTTGGACATTTACCTTTTTGAAAAAGAAACACTTAAATGATCATTAGGACATAACAGACTAGGCC
AGACATAGCATCTTGTGGCTTTGCAACCATTTTCATTTGTTTGTGTTTCCTTTTATTTCTTACCAGATTTAAATA
AAAGGAGGAATTTTCTCCAATTTTTTTTCTCTGCGCAGGTATCCCCAGCAGTCAATTAACAATAAGCCAGT
ATAAAACACCTAAATAACCAATCTACAATCTCCCTTCACAAGTTTTTTTACTGTTTTTAGATGAATGTACGATGA
GAAATTCAACGTTAATAATTCTGGATTTTCTTATCAGAAAAAGAAAAATGAAGGACCTCAAAGCACCTGAACAGT
TTATCGACCAGTTTGAATCTATTTATCTTCATTTGAATGTCTCTAGATATGTAAAAAGTCATAAATGTATCTT
CCATGCTACATGTACAATAAGAACTTCTATAATTGTATATATGCCTTTGATGTATTTCCCTCAAGATTATCAA
CTGTGTGTTGACAGTGAATATCAATCTGGTACCAGTTGAAATTTTTGGTTATAAATGTAATACGAATTGTTTC
ACAAACAGAAAACATGTAAAGCAGTATTAAAAATTTGGCCAAACAAGTGTCTGTATCTACTTTAATAAATGGTT
ATTCTTT

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FIGURE 2329

MSMLKPSGLKAPT KILKPGSTALKTPTAVVAPVEKTISSEKASSTPSSETQEEFVDDFRVGERVWVNGNKP GFIQ
FLGETQFAPGQWAGIVLDEPIGKNDGSGVAGVRYFQCEPLKGIFTRPSKLTRKVQAEDEANGLQTT PASRATSPLC
TSTASMVSSSPSTPSNIPQKPSQPAAKEPSATPPISNLTKTASESISNLSEAGSIKKGERELKIGDRVLVGGTKA
GVVRF LGETDFAKGEWCGVELDEPLGKNDGAVAGTRYFQCQPKYGLFAPVHKVTKIGFPSTTPAKAKANAVRRVM
ATTSASLKRSPTSASSLSMSSVASSVSSRPSRTGLLTETSSRYARKISGTTALQEALKEKQQHIEQLLAERDLER
AEVAKATSHVGEIEQELALARDGHDQHVLELEAKMDQLRTMVEAADREKVLLNQLEEEKRVEDLQFRVEEESI
TKGDLETQTKLEHARIKELEQSLFEKTKADKLQRELEDTRVATVSEKSRIMELEKDLALRVQEVAE LRRRLESN
KPGADVMSLSLLQFISLQEKLEVTRTDHQREITSLEKHFAGAREETHQKEIKALYTATEKLSKENESLSKSKLEH
ANKENSDVIALWKS KLETAIASHQQAMEELKVFSKGLGTETAFAELKTQIEKMRLDYQHEIENLQNQQDSERA
AHAKEMEALRAKLMKVIKEKENSLEAIRSKLDKAEDQHLVEMEDTLNKLQAEIKVKELEVLQAKCNEQTKVIDN
FTSQLKATEEKLLDLDALRKASSEKSEMKKLRQQLAAEKQIKHLEIEKNAESSKASSITRELQGRELKLTLNLO
ENLSEVSQVKETLEKELQILKEKFAEASEEAVSVQRSMQETVNLKHQKEEQFNMLSSDLEKLREN LADMEAKFRE
KDEREEQLIKAKEKLENDIAEIMKMSGDNSSQLTKMNDLRLKERDVEELQLKLTKANENASFLQKSIEDMTVKA
EQSQQEAAKKHEEEKELERKLS DLEKKMETSHNQCQELKARYERATSETTKKHEEILQNLQKTLTLDTE DKLKGA
REENSGLLQELEELRKQADKAKAAQTAEDAMQIMEQMTKEKTETTLASLEDTKQTNAKLQNELDTLKENNLKNVEE
LNKSKELLTVENQKMEEFRKEIETLKQAAAQKSQQLSALQEENVKLAEEELGRSRDEVTS HQKLEEERSVLNNQLL
EMKKRESKF IKDADEEKASLQKSISITSALLTEKDAELEKLRNEVTVL RGENASAKSLHSVQTLES DKVKLELK
VKNLELQ LKENKRQLSSSSGNTDTQADEDERAQESQIDFLNSVIVDLQRKNQDLKMKVEMMSEALNGNGDDLNN
YDSDDEKQSKKKPRLFCDCFCFDLHDTEDCPTQAQMSDPPHSTHHGSRGEERP YCEICEMFGHWATNCNDDE
TF

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FIGURE 2330A

GGTCTCACCATGGAGCGGAAAGTGCTTGGCGTCCAGGCCCGAAAGAAAAGGACCAAGGCCAAGAAGGACAAAGCC
CAAAGGAAATCTGAAACTCAGCACCGAGGCTCTGCTCCCCACTCTGAGAGTGATCTACCAGAGCAGGAAGAGGAG
ATTCTGGGATCTGATGATGATGAGCAAGAAGATCCTAATGATTATTGTAAAGGAGGTTATCATCTTGTGAAAATT
GGAGATCTATTCAATGGGAGATACCATGTGATCCGAAAGTTAGGCTGGGGACACTTTTCAACAGTATGGTTATCA
TGGGATATTGAGGGGAAGAAATTTGTGGCAATGAAAGTAGTTAAAAGTGCTGAACATTACACTGAAACAGCACTA
GATGAAATCCGGTTGCTGAAGTCAGTTTCGCAATTCAGACCCTAATGATCCAAATAGAGAAATGGTTGTTCAACTA
CTAGATGACTTTAAAATATCAGGAGTTAATGGAACACATATCTGCATGGTATTGAAGTTTTGGGGCATCATCTG
CTCAAGTGGATCATCAAATCCAATTATCAGGGGCTTCCACTGCCTTGTGTCAAAAAAATTATTAGCAAGTGTTA
CAGGGTCTTGATTATTTACATACCAAGTGCCGTATCATCCACACTGACATTAAACCAGAGAACATCTTATTGTCA
GTGAATGAGCAGTACATTCCGAGGCTGGCTGCAGAAGCAACAGAATGGCAGCGATCTGGAGCTCCTCCGCCTTCC
GGATCTGCAGTCAGTACTGCTCCCCAGCCTAAACCAGCTGACAAAATGTCAAAGAATAAGAAGAAGAAATTGAAG
AAGAAGCAGAAGCGCCAGGCAGAATTACTAGAGAAGCGAATGCAGGAAATTGAGGAAATGGAGAAGAGTCGGGC
CCTGGGCAAAAAAGACCAACAAGCAAGAAGAATCAGAGAGTCCTGTTGAAAGACCCCTTGAAGAGAACCCACCT
AATAAAATGACCCAAGAAAACTTGAAGAGTCAAGTACCATTGGCCAGGATCAAACGCTTATGGAACGTGATACA
GAGGGTGGTGCAGCAGAAATTAATTGCAATGGAGTGATTGAAGTCATTAATTATACTCAGAACAGTAATAATGAA
ACATTGAGACATAAAGAGGATCTACATAATGCTAATGACTGTGATGTCCAAAATTTGAATCAGGAATCTAGTTTC
CTAAGTCCCCAAATGGAGACAGCAGCACATCTCAAGAAACAGACTCTTGTACACCTATAACATCTGAGGTGTCA
GACACCATGGTGTGCCAGTCTTCCTCAACTGTAGGTCACTCAGTGAACAACACATTAGCCAACCTCAAGAA
AGCATTCCGGGCAGAGATACCCTGTGAAGATGAACAAGAGCAAGAACAACGACGACCACTGGACAACAAAGGAAAA
TCCACGGCTGGAATTTTCTTGTTAATCCCCTTGAGCCAAAAATGCAGAAAAGCTCAAGGTGAAGATTGCTGAC
CTTGGAATGCTTGTGGCACAACATTTCACTGAAGATATTCAAACAAGGCAATATCGTTCCTTGGAAGTTCTA
ATCGGATCTGGCTATAATACCCCTGCTGACATTTGGAGCACGGCATGCATGGCCTTTGAACTGGCCACAGGTGAC
TATTTGTTTGAACCTCATTGAGGGGAAGAGTACACTCGAGATGAAGATCACATTGCATTGATCATAGAATTCTG
GGGAAGGTGCCTCGCAAGCTCATTGTGGCAGGAAAATATTCCAAGGAATTTTTCACCAAAAAGGTGACCTGAAA
CATATCACGAAGCTGAAACCTTGGGGCCTTTTGGAGTTCTAGTGAGAGATGAGTGGTTCGCAGGAAGAGGCA
GCTGGCTTCACAGATTTCTTACTGCCATGTTGGAGCTGATCCCTGAGAAGAGAGCCACTGCCGCCGAGTGTCTC
CGGCACCCCTGGCTTAACCTCCTAAGCCCTGCCCAGCACACAGCAGAGATCACACACTGACCCCTCCGCCCTTCC
CCTTCAAGCATTTTCTCTTCCCTTTTTCAGGGTGAAGCTCTTCTTCAAGAGTTTCTAGATCTTGTTTTTTTTT
AATCCAACATGTTTCAATTTGGGTTTGCTTACTTGACCTGTGGAGATCCCCACAGCCATTGGGCATCCTAGGTGAA
TTTGGCCTTGGTTGGGCTCTGCCAAAGACTAATGGACTAAAATGTGAAACAGCCTCTTGCCCTGTACCTTTCTT
CCCATTAGGACATCCTTTAAATTATAAGCATCCTTTTGAAGAGCTATGAAGGTGTATGAGCCATCCTTTTA
TTCATTGACTCTAAGAGTCAAATTTCTAGTGATATCCTATTGCCAGCATAAGGATGAGGAGGGGAAAGGGTC
TTAATTCTATGTACAGCAGAGACATTAACCTGTGTGTCCGGGCTGCATCATCTTCTGGACTGTTTCTGTGT
TCTCTGTGTTACATTTTTCTGCAACTTTTAAGCTACTGTCTTTTTTAATAGCTATATGAACACCAAATTTG
GGTACCATTTTATCACTGTTCAAAGCACTGTCAAATTCCTTCATCCTTTAATAGTTAAGATCTTTGAATCTTCA
GTCTGATTTTTAATGTAAGCAAAAACAGAACCATTTGAATAGTAATTTCTTGAGAACCTCAGGTGTTCTATAAACA
GTCTTTTCTGTATGTCTTATTACCCCTAAGACCAGAGTTATTTTGGTTGGTTGTTTTGTTTTATTTTTTGT
TTGTATCCATGGCTGGCATTACTCATTGCATTGAGTTTATTGCCCCATAACTAAAGGATCAGGATGATGGTA
GAACGGAGATCTGGGTTTCAGAGCTTTCCCATTTAAGAAAAATAGATCTTGAGATTCTGATTCTTTTCCAAACAG
TCCCCTGCTTTCATGTACAGCTTTTCTTTACCTTACCCAAAATCTGGCCTTGAAGCAGTTTTCTCTATGGCT
TTGCCCTTCTGATTTTCTCAGAGGCTCGAGTCTTTAATATAACCCCAAATGAAAGAACCAAGGGGAGGGGTGGGA
TGGCATTTTTTTGTGGTCTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTT
TCTCTGCTGCTATTTCCCTACATAATGTCAATTTTTTAACCATAATTTTGACATGATTGAGATGTAAGGCTT
TTTTGTTTTAATTGAGAAAAGACTTTGCAATTTTTTTTTTAGGATGAGCCTCTCCTAGACTTGACCTAGAATATT
ACATATTCCTCCAGTAAGTAATACTGAAGAGCAAAAAGAGAGGAGGATTGGGGTCACAGCCGCTTCTTCAGCATG
GACCAAGTGGGCCTTGGGGATTGCAGCGTTCTCGAAGTGGCTGTAGGACTCGAATTTACAGAAAGCCACAGAGGT
GCAACTTGAGGCTCTGCTAGCAAGCCACAGTGAGGCTATTGGGTAACCACCTTTCTATACAGGAGATTGGAATC
TACTTTGTCAATTTATCCACCACAGTGACAAAGGAAAAGTGGTGCCGTTATGCAATCCATTTAACTCATAAACATA

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FIGURE 2330B

TTACTCTGAGTAACTGGCCAGCCATTTCATCGGATCCTTCATTGGGTACTCCTGAAATCAGACATGTTCTGTAGA
AAGAATTTTAAGTTAGGCTTTCTATGCACCTATCAAGAATCAAGAGAATAGATTGTATCAAACAACGGCAGGGAA
ATCCTTCAGCAATTCTAATCCACTTTGGGTTTTTCAGCTGTTTTTACATCTAAAGCAATAGACTAGAACTGAATTA
TCTTCTACATAGTAAATCACAATTGTGGAATTACAGGAATTCTGGTGATATTAAGGTGAAATAACAAAACACAA
AAGGCCCTATTTTAACAGTTGATGTGACAGTAAGTTTTAATAGAACCTGTAACTTCATTTTGGAAATGCTTCTCC
ACCAAATAAGGGCTTTTCCCCTATTTAAGGAGCCAGATGGATTGAAAGATGTGGAAATAGGCAGCTGTAGATCT
TGATCTTCAGGTACCCCATGTACCTTTATTGAGCTTAATTATAATACTGTCAAATTGCCACGATCTCACTAAAG
GATTTCTATTTGCTGTCAGTTAAAAATAAGCCCTAAATACATTTTATTCTTTCTACTGAGGGCATTGTCTGTT
TTCTTTGTAAATGCCGTACAATAACAAATTATTTAATAACCTA

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FIGURE 2331

MERKVLALQARKKRTKAKKDKAQRKSETQHRGSAPHSESDLPEQEEIILGSDDDEQEDPNDYCKGGYHLVKIGDL
FNTRYHVIRKLGWGHFSTVWLSWDIQGKKFVAMKVVKSAEHYTETALDEIRLLKSVRNSDPNDPNREMVVQLLDD
FKISGVNGTHICMVFEVLGHHLLKWIIKSNYQGLPLPCVKKIIQQVLQGLDYLHTKCRIIHTDIKPENILLSVNE
QYIRRLAAEATEWQRSGAPPPSGSAVSTAPQPKPADKMSKNKKKKLKKKQKRQAELLEKRMQEIEEMEKESESGPGQ
KRPNKQEESESPVERPLKENPPNKMTQEKLEESSTIGQDQTLMERDTEGGAAEINCNGVIEVINYTQNSNNETLR
HKEDLHNANDCDVQNLNQESSFLSSQNGDSSTSQETDSCPTITSEVSDTMVCQSSSTVGQSFSEQHISQLQESIR
AEIPCEDEQEHEHNGPLDNKGKSTAGNFLVNPLEPKNAEKLKVKIADLGNACWHKHFTEDIQTRQYRSLEVLIGS
GYNTPADIWSTACMAFELATGDYLFEPHSGEYTRDEDHIALIIELLGKVERKLIVAGKYSKEFFTKKGDLKHIT
KLKPWGLFEVLVEKEYEWSQEEAAGFTDFLLPMLLELIPEKRATAAECLRHPWLNS

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FIGURE 2332

TTTCCTCTTTCTCTAAGAGTCTCTCTCTCCCTTTCCCTCTCTCTCCCCCAATCTGTCTTTCTAGCATGTTGCC
TTTTTCAACCACATTTGTGTTTCAGGTGTAGAGAGGAGAGAGAGTGAACAGGGAGCGGGGCTTTTGTCTGTTGGT
CTCCCTGGACTGAAGAGAGGGAGAATAGAAGCCCAAGACTAAGATTCTCAAAATGGTTTTATTACCCAGAACTCTT
TGCTCTGGGTCAAGCAAGAACCATTTCCAAACAAGGACATGGAGGGAAGGCTTCCTAAGGGAAGACTTCCTGTCCC
AAAGGAAGTGAACCGCAAGAAGAACGATGAGACAAACGCTGCCTCCCTGACTCCACTGGGCAGCAGTGAACCTCCG
CTCCCCAAGAATCAGTTACCTCCACTTTTTTTTAAATCGTAACACCTCCATTTGTATTACATATGGTGTATGGGTAT
TGATGAGGTGATGGTATCATATATGGGATTTTTTCTGTGTAAATCATCAAGTATAAGAAGAACTATGGGACTC
TGAGCCTTGCTTTAGAGAATTTACAGTGGACAAAAGGTGTATCAAAACAGTTTTTAATCATTCTGACTCAAGT
GAAAACGCTCAGAAATTCACACTGTGAATCCACGTTTACAACCCCTTACAGGTGGGCTTCAGGCCTGGTTCGCTA
CAACAATGTCTTCCACAACCTCAAACCTCCACCGCGCTCACACAACCGGTCCACTCCTGCCTTTTCACTCACACAG
CTCCCGACTGCTTCTGAGAGGCTGAGAGTCCCCCCCCCACCCTTTTTTTTTTCAATTAGATGTAACAAACCTAG
TAGTTTATGTTTCATCAATTGTCTGTATATCTCTATATTTTATCCATGTACTCTTTTGATGTATAGAAGTAGTTTG
AACTCATTGTTTCCCTGTGGTAAGTGACCGAGATGCTGCCACAGGACCTGAGACACTGATGAATGGTGCTATTT
TGGACTTTCAACATGCTCCTTGCGGAGGTAGCTCTGATGGAGTTATTTTTTATTTCCATGTTCTAAGAAGGTGTT
GGTACTCTGTTTCCCTGAATGTTGTTCTCTAGACTGGATTGACTTGTTTTCTTGTGCTTCAGTGTGGCTTTCT
TCCTCAGTGTTGTAGGTTGAGCGAATGCTACCAGAGTGTGAGAGACCATTTGTCTCGTTGGCTGGCGCTCACGGAC
ATGCAGTCACGGTAGCGGGAGCAATCACAAAACCTGTAATTTACTTACCAAATCTCTTCCCTTTCCGTAGCCTCGCC
TGCCTGACTTAGAGAAAAGAAAAGCAATAATTTTACAGGCATTTTGAGGTGTCTTTTGGGTCTTTCTGTTTGAA
AGGATATTTGTGCAAAAAAAGAGCAAAACCGTTTTTAAATAAACTCCCCCTGGAAAAAACCCAAAACACTGGCAT
CTGAGTAGGAATATGAAAATGACACCTTTTCCAAATATTAAATTGGAAAAACAAGGTCTACAAAATCATGATACTT
TTTTAAAGGCAGAGCATTCTTTTTTTCGGCAATTTTGATAAGCAAGGTGTAGATTTACATTTTGTCTTGTCTC
CAACGAAATGGATAAACAAAAATAAATTACCATCTACTCATGGAATGTTGTTGTGTTAGCCAGTCTGAAAGCCCA
CCTTAATTTTTATATACTGTCTTTAGCTCTTCTTTTGACAGGGCAGGCCTTGTTCTGAACTGTTTCGCTTCTGA
CTGTTAAACACCGATGACGCATGCACTGCACTTCTTCGTTTTCTTCTGCTCCCCATTGGCCTGAGTTTCTGT
GCATTACTCCTCTCCCTCCTTCGTTAGAATAGGTATATCAGCTGTGTAATAGAGCAAGAAAACAGTATTCTGCA
TCTGTGGCATTATGTAGAGTTGCAGTTGTGTACTGCTGAAAATGCAGGCTTTTGTAACAGTGTGATCTTTACTG
ATGCACTCATGACAAGTACCCAATGTATTTTAGCTATTTTAGTAGTATTTGTTCAATAAATACGCAAGCTGTAAG
GTAACGTCTG

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FIGURE 2333

MVYYPELFVWVSQEPFPNKDMEGRLPKGRLPVPKEVNRKKNDETNAASLTPLGSSELRSPRISYLFHF

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FIGURE 2334

AAATTCTTATTCTTAGTGAGAGACTGTAGTTAAAAGGAAGGCTTTTAGAACTTGGGTTCAAGGAAGATGGAGATG
CGTCGGAAGCTCTTTGGCGGGGTGAGGAAGTTCAGAAAGTGTGCATTTTCCTTCTGGCATTTAGGTCTTGTCCG
TGTGATTTGGTGGTGCTTGGGTCATAAGCCTGATTAAAATTCAAGGGACATGTACCACGGCGGCCAAAGCGGAATT
AATTTTTTTATATGGGGACTGGAGCGCTGAAAAGTTGTTCTTGACCAGGCTCTAATGAGAAATTCCTCTCTCCCC
AGGTTATGAAGACAGTATCGAGTTTCCAGACCATAGTAGACATTGCTACAGTGTCTGAGCGAGCAGAGACACCA
GGGTTTTCTTTGTGACTGCACTGTTCTGGTGGGAGATGCCCAGTCCGAGCGCACCGAGCTGTACTGGCTTCATG
CAGCATGTATTTCCACCTCTTTTACAAGGACCAGCTGGACAAAAGAGACATTGTTTCATCTGAACAGCGACATTGT
TACAGCCCCCGCTTTCGCTCTCCTGCTTGAATTCATGTATGAAGGGAACTCCAGTTCAAAGACTTGCCCCATTGA
AGACGTGCTAGCAGCTGCCAGTTATCTCCACATGTATGACATTGTCAAAGTCTGCAAAAAGAAGCTGAAAGAGAA
AGCCACCACGGAGGCAGACAGCACCAAAAAGGAAGAAGATGCTTCAAGTTGTTTCGGACAAAAGTCGAGAGTCTCTC
CGATGGCAGCAGCCACATAGCAGGCGATTGCCCCAGTGATGAAGATGAAGGAGAAGATGAAAAATTGAACATCCT
GCCCAGCAAAAGGGACTTGGCGGGCGAGCCTGGGAACATGTGGATGCGATTGCCCTCAGACTCAGCAGGCATCCC
CCAGGCTGGCGGAGAGGCAGAGCCACACGCCACAGCAGCTGGAAAAACAGTAGCCAGCCCCGTCAGCTCAACAGA
GTCTTTGTCCAGAGGTCTGTACCTCCGTGAGGGATTGGGCAGATGTTGACTGTGTGCTGGACCTGTCTGTCAA
GTCCAGCCTTTCAGGAGTTGAAAATCTGAACAGCTCTTATTTCTCTTCACAGGACGTGCTGAGAAGCAACCTGGT
GCAGGTGAAGGTGGAGAAAGAGGCTTCCTGTGATGAGAGTGATGTTGGCACTAATGACTATGACATGGAACATAG
CACTGTGAAAGAAAGTGTGAGCACTAATAACAGGGTACAGTATGAGCCGGCCCATCTGGCTCCCTGAGGGAGGA
CTCGGTCTTGAGGGAGCTGGACCGGGAGGACAAAGCCAGTGATGATGAGATGATGACCCAGAGAGCGAGCGTGT
CCAGGTGGAGGGAGGCATGGAGAGCAGTCTGCTCCCCCTACGTCTCCAACATCCTGAGCCCCGCGGGCCAGATCTT
CATGTGCCCCCTGTGCAACAAGGTCTTCCCCAGCCCCACATCCTGCAGATCCACCTGAGCACGCACTTCCGCGA
GCAGGACGGCATCCGCAGCAAGCCCCGCCCGGATGTCAACGTGCCACGTGCTCGCTGTGTGGGAAGACTTTCTC
TTGCATGTACACCCTCAAGCGCCACGAGAGGACTCACTCGGGGGAGAAGCCCTACACATGCACCCAGTGCAGGCA
GAGCTTCCAGTACTCGCACAACTGAGCCGCCATGCCGTGGTGACACCCGCGAGAAGCCGACGCCTGCAAGTG
GTGCGAGCGCAGGTTTACGCAGTCCGGGGACCTGTACAGACACATTGCGCAAGTTCCACTGTGAGTTGGTGAAC
CTTGTCGTTCAAAAGCGAAGCACTGAGCTTGCTACTGTGAGAGCTGGACCTTAGAAGATAGCTCTCAAGAACT
TTGGAAATAAATTTTATATATATATAAATAATATATATATATACATATATATAAATAGATCTCTATATAGTTGT
GGTACGGTCTAAAAGCAGTCTTGTTCCTGGAAATAAAAAGTTGGGATATTAACCTGTTTTTGCACTTTAGAAT

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FIGURE 2335

MEFPDHSRHLQCLSEQRHQGF LCDCTVLVGDAQFRAHRAVLASCSMYFHLFYKDQLDKRDIVHLNSDIVTAPAF
ALLLEFMYEGKLQFKDLP IEDVLAAASYLHMYDIVKVCKKKLKEKATTEADSTKKEEDASSCSDKVESLSDGSSH
IAGDLP SDEDEGEDEKLNILPSKRDLAAEPGNMWMRLP SDSAGIPQAGGEAEPHATAAGKTVA SPCSSSTESLSQR
SVTSVRDSADVDCVLDLSVKSSLSGVENLNSSYFSSQDVLR SNLVQVKVEKEASCDESDVGTNDYDMEHSTVKES
VSTNNRVQYEP AHLAPLREDSVLRELDREDKASDDEMTPESERVQVEGGMESSLLPYVSNILSPAGQIFMCPLC
NKVFPSPHILQIHLSTHFREQDGIRSKPAADVNVPTCSLCGKTFSCMYTLKRHERTHSGEKPYTCTQCGKSFOYS
HNLSRHAVVHTREKPHACKWCERRFTQSGDLYRHIRKFHCELVNSLSVKSEALS LPTVRDWTLEDSSQELWK

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FIGURE 2336A

AGCGCCCGCCGCTCCGGGGCCGGCTGGTGCGGAGACGCCGCCGAGAGTTGTGAAGGGCGCGGGTGGGGGGCGC
TGCCGGCCTCGTGGGTACGTTCTGTGCCGCTCTGTCCCAGAGCTGGGGCCGAGGAGCGGAGGCAAGAGGGGCAC
TATGGCAGACAAAGTTAGGAGGCAGAGGCCGAGGAGGCGAGTCTGTTGGGCCCTTGGTGGCTGTGCTCTTGCCAGA
CCTGTTGGCACTGAGTGATACACTGGCAGTGATGTCTGTGGACCTGGGCAGTGAGTCCATGAAGGTGGCCATTGT
CAAACCTGGAGTGCCCATGGAAATTGTCTGAATAAGGAATCTCGGAGGAAAACACCGGTGATCGTGACCTGAA
AGAAAATGAAAGATTCTTTGGAGACAGTGCAGCAAGCATGGCGATTAGAATCCAAAGGCTACGCTACGTTACTT
CCAGCACCTCCTGGGGAAGCAGGCAGATAACCCCCATGTAGCTCTTTACCAGGCCCGCTTCCCGGAGCAGAGCT
GACTTTGACCCACAGAGGCAGACTGTGCACCTTCAGATCAGCTCGCAGCTGCAGTTCTCACCTGAGGAAGTGT
GGGCATGGTTCTCAATTATTCTCGTTCTCTAGCTGAAGATTTGCAGAGCAGCCCATCAAGGATGCAGTGATCAC
CGTGCCAGTCTTCTTCAACCAGGCCGAGCGCCGAGCTGTGCTGCAGGCTGCTCGTATGGCTGGCCTCAAAGTGCT
GCAGCTCATCAATGACAACACCGCCACTGCCCTCAGCTATGGTGTCTTCCGCCGAAAGATATTAACACCACTGC
CCAGAATATCATGTTCTATGACATGGGCTCAGGCAGCACCGTATGCACCAATTGTGACCTACCAGATGGTGAAGAC
TAAGGAAGCTGGGATGCAGCCACAGCTGCAGATCCGGGGAGTAGGATTTGACCGTACCCTGGGGGGCCTGGAGAT
GGAGCTCCGGCTTCGAGAACGCCTGGCTGGGCTTTTCAATGAGCAGCGCAAGGGTCAGAGAGCAAAGGATGTGCG
GGAGAACCCGCTGCCATGGCCAAGCTGCTGCGTGAGGCTAATCGGCTCAAACCGTCTCAGTGCCAACGCTGA
CCACATGGCACAGATTGAAGGCTGATGGATGATGTGGACTTCAAGGCAAAAGTGACTCGTGTGGAATTTGAGGA
GTTGTGTGCAGACTTGTGTTGAGCGGGTGCCCTGGGCCTGTACAGCAGGCCCTCCAGAGTGCCGAAATGAGTCTGGA
TGAGATTGAGCAGGTGATCCTGGTGGGTGGGGCCACTCGGGTCCCCAGAGTTCAGGAGGTGCTGCTGAAGGCCGT
GGGCAAGGAGGAGCTGGGGAAGAACATCAATGCAGATGAAGCAGCCGCCATGGGGGCAGTGTACCAGGCAGCTGC
GCTCAGCAAAGCCTTTAAAGTGAAGCCATTTGTCGTCCGAGATGCAGTGGTCTACCCCATCTCGGTGGAGTTTAC
GAGGGAGGTGGAGGAGGAGCCTGGGATTACAGCCTGAAGCACAATAAACGGGTACTCTTCTCTCGGATGGGGCC
CTACCCTCAACGCAAAGTCATCACCTTTAACCCTACAGCCATGATTTCAACTTCCACATCAACTACGGCGACCT
GGGCTTCTCGGGCCTGAAGATCTTCGGGTATTTGGCTCCCAGAACTTGACCACAGTGAAGCTAAAAGGGGTGGG
TGACAGCTTCAAGAAGTATCCTGACTACGAGTCCAAGGGCATCAAGGCTCACTTCAACCTGGATGAGAGTGGCGT
GCTCAGTCTAGACAGGGTGGAGTCTGTATTTGAGACACTGGTAGAGGACAGCGCAGAAGAGGAATCTACTCTCAC
CAAACCTGGCAACACCAATTTCCAGCCTGTTTGGAGGCGGTACCACACCAGATGCCAAGGAGAATGGTACTGATAC
TGTCAGGAGGAAGAGGAGAGCCCTGCAGAGGGGAGCAAGGACGAGCCTGGGGAGCAGGTGGAGCTCAAGGAGGA
AGCTGAGGCCCCAGTGGAGGATGGCTCTCAGCCCCCACCCTGAACCTAAGGGAGATGCAACCCCTGAGGGAGA
AAAGGCCACAGAAAAAGAAATGGGGACAAGTCTGAGGCCAGAAACCAAGTGAGAAGGCAGAGGCAGGGCCTGA
GGGCGTGCCTCCAGCCCCAGAGGGAGAGAAGAAGCAGAAGCCCGCCAGGAAGCGGCGAATGGTAGAGGAGATCGG
GGTGGAGCTGGTTGTTCTGGACCTGCCTGACTTGCCAGAGGATAAGCTGGCTCAGTCGGTGCAGAACTTCAGGA
CTTGACACTCCGAGACCTGGAGAAGCAGGAACGGGAAAAAGCTGCCAACAGCTTGGAAAGCGTTTATATTGAGAC
CCAGGACAAGCTGTACCAGCCCGAGTACCAGGAAGTGTCCACAGAGGAGCAGCGTGAGGAGATCTCTGGGAAGCT
CAGCGCCGCATCCACCTGGCTGGAGGATGAGGGTGTGGAGCCACCACAGTGATGTTGAAGGAGAAGCTGGCTGA
GCTGAGGAAGCTGTGCCAAGGGCTGTTTTTCGGGTAGAGGAGCGCAAGAAGTGGCCCGAACGGCTGTCTGCCCT
CGATAATCTCCTCAACCAATTCAGCATGTTCTCAAGGGGGCCCGGCTCATCCAGAGATGGACCAGATCTTCAC
TGAGGTGGAGATGACAACGTTAGAGAAAGTCATCAATGAGACCTGGGCTGGAAGAATGCAACTCTGGCCGAGCA
GGCTAAGCTGCCCGCCACAGAGAAGCCTGTGTTGCTCTCAAAAGACATTGAAGCTAAGATGATGGCCCTGGACCG
AGAGGTGCAGTATCTGCTCAATAAGGCCAAGTTTACCAAGCCCCGGCCCCGGCCTAAGGACAAGAATGGGACCCG
GGCAGAGCCACCCCTCAATGCCAGTGCCAGTGACCAGGGGGAGAAGTTCATCCCTCCAGCAGGCCAGACTGAAGA
TGCAGAGCCCATTTAGAACCTGAGAAAGTAGAGACTGGATCCGAGCCAGGAGACACTGAGCCTTTGGAGTTAGG
AGGTCCTGGAGCAGAACCTGAACAGAAAGAACATCGACAGGACAGAAGCGGCCTTTGAAGAACGACGAAGTATA
ACCCCACTCTGTTTTCCCATTCATCTCCACCCCTTCCCCACCACTTCTATTATTTAACATCGAGGGTTG
GGGGAGGGGTTGGTCTGCCCTCGGCTGGAGTTCCTTTCTACCCCTGTGATTTGGAGGTGTGGAGAAGGGGAAG
GGAGGGACAGCTCACTGGTTCCTTCTGCAGTACCTCTGTGGTTAAAAATGGAACTGTTCTCTCCCGACCCCA
CTCCCTGTTCCCTACCATATAGGCCCTAAATTTGGGAAAAATCACTATTAATTTCTGAATCCTTTGCCCTGTGG
TAGGAAGAGAATGGCTGCCAGTGGCTGATGGGTCCCGTGATGGGAAGGGTATCAGGTTGCTGGGGAGTTTCCAC
TCTTCTCTGGTGATTGTTCTTCCCTCCCTTCTCTCCCAACCATGCGATGAGCATCCTTTCAGGCCAGTGCTGCTGC

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FIGURE 2336B

AGAGCCTCAGTTACCAGGTTTGGTTTCTGAGTGCCTATCTGTGCTCTTTCCCTCCCTCTGCGGGCTTCTCTTGCTC
TGAGCCTCCCTTCCCCATTCCCATGCAGCTCCTTTCCCCCTGGGTTTCCTTGGCTTCCTGCAGCAAATTGGGCAG
TTCTCTGCCCCCTGCCTAAAAGCCTGTACCTCTGGATTGGCGGAAGTAAATCTGGAAGGATTCTCACTCGTATTT
CCCACCCCTAGTGGCCAGAGGAGGGAGGGGCACAGTGAAGAAGGGAGCCCACCACCTCTCCGAAGAGGAAAGCCA
CGTAGAGTGGTTGGCATGGGGTGCCAGCATCGTGCAAGCTCTGTCTATAATCTGCATCTTCCCAGCAGCCTGGTAC
CCCAGGTTCCCTGTAACCTCCCTGCCTCCTCCTCTCTCTGTCTGTTCTGCTCCTCCCAGACAGAGCCTTTCCCTCAC
CCCCTGACCCCTGGGCTGACCAAAATGTGCTTTCTACTGTGAGTCCCTATCCCAAGATCCTGGGGAAAGGAGAG
ACCATGGTGTGAATGTAGAGATGCCACCTCCCTCTCTCTGAGGCAGGCCTGTGGATGAAGGAGGAGGGTCAGGGC
TGGCCTTCCTCTGTGCATCACTCTGCTAGGTTGGGGGCCCCGACCCACCATACTACGCCTAGGGAGCCCGTCC
TCCAGTATTCGTCGTAGCAGGAGCTAGGGCTGCTGCCTCAGCTCCAAGACAAGAATGAACCTGGCTGTGTGAG
TCATTTTGCTTTTCCCTTTTTTTTTTTTTTGGCCACATGGCAGAGATGGGACCTAAGGGTCCCACCCCTCACCCCA
CCCCACCTCTTCTGTATGTTTGAATTCTTTCAGTAGCTGTTGATGCTGGTTGGACAGGTTTGAGTCAAATTGTA
CTTTGCTCCATTGTTAATTGAGAACTGTTTCAATAAAATATTCTTTTCTAC

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FIGURE 2337

MADKVRQRPRRRVCWALVAVLLADLLALSDTLAVMSVDLGSESMKVAIVKPGVPMEIVLNKESRRKTPVIVTLK
ENERFFGDSAASMAIKNPKATLRYFQHLLGKQADNPHVALYQARFPEHELTFDPQRQTVHFQISSQLQFSPEEVL
GMVLNYSRSLAEDFAEQPIKDAVITVPVFFNQAERRAVLQAARMAGLKVLQLINDNTATALSYGVFRRKDINTTA
QNIMFYDMGSGSTVCTIVTYQMVKTKEAGMQPQLQIRGVGFDRITLGGLEMELELRLRERLAGLFNEQRKGQRAKDVR
ENPRAMAKLLREANRLKTVLSANADHMAQIEGLMDDVDFKAKVTRVEFEELCADLFEFVPGPVQQAALQSAEMSLD
EIEQVILVGGATRVPRVQEVLLKAVGKEELGKNINADEAAAMGAVYQAAALSKAFKVKPFVVRDAVVYPILVEFT
REVEEPEGIHSKHNKRVLF SRMGYPYQKVI TFNRYSHDFNFHINYGDLGFLGPEDLRVFGSQNLTTVKLKGVG
DSFKKYPDYESKGIKAHFNLDSEGLSLDRVESVFETLVEDSAEEESTLTCLKGNTISSLFGGGTTTPDAKENGDTT
VQEEEESPAEGSKDEPGEQVELKEEAEPVEDGSQPPPEPKGDATPEGEKATEKENGDKSEAQKPSEKAEAGPE
GVAPAPEGEKKQK PARKRRMVEEIGVELVVLDPDLPEDKLAQSVQKLQDLTLRLDLEKQEREKAANSLEAFIFET
QDKLYQPEYQEVSTEEQREEISGKLSAASTWLEDEGVGATTVMLKEKLAELRKLCQGLFFRVEERKKWPERLSAL
DNLLNHSSMFLKGARLIPMDQIFTEVEMTTLEKVINETWAWKNATLAEQAKLPATEKPVLLSKDIEAKMMALDR
EVQYLLNKAKFTKPRPRPKDKNGTRAEPPLNASASDQGEKVI PPAGQTEDAEP ISEPEK VETGSEPGDTEPLELG
GPGAEP EQKEQSTGQKRPLKNDEL

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FIGURE 2338

CCAAATTATTGTATCTCACAGTGTGGGGAAAAGGAAGAGAGATCAGATTGTTACTGTGTCTGTGTAGAAAGAAGT
AGACATAGGAGACTCCATTTTGTATGTACTAAGAAAAATTCTTCTGCCTTGAGATTCTGTTAATCTATAACCTT
ACCCCCAACCCCGTGTCTCTGAAACATGTGCTGTGCTCTCAGAATTGCCTGTTTTTTGTGCTCCTCCGAGC
TCGCTGTTCTGTCGGGTTTTTTACGTTTTAATTTCCAGGACTTGAAGTCCATGTCCTCTGAAGAAGGAAAGCTC
TTCGTGGGAGGGCTCAACTTTAACACCGACGAGCAGGCACTGGAAGACCACTTCAGCAGTTTCGGACCTATCTCT
GAGGTGGTCGTTGTCAAGGACCGGAGACTCAGCGGTCCAGGGTTTTGGTTTTCATCACCTTCACCAACCCAGAG
CATGCTTCAGTTGCCATGAGAGCCATGAACGGAGAGTCTCTGGATGGTCGTGATCCGTGTGGATCATGCAGGC
AAGTCTGCTCGGGGAACAGAGGAGGTGGCTTTGGGGCCCATGGGCGTGGTCGCAGCTACTCTAGAGGTGGTGGG
GACCAGGGCTATGGGAGTGGCAGGTATTATGACAGTCGACCTGGAGGGTATGGATATGGATATGGACGTTCCAGA
GACTATAATGGCAGAAACCAGGGTGGTTATGACCGCTACTCAGGAGGAAATTACAGAGACAATTATGACAACTGA

AATGAGACATGCACATAATATAGATACACAAGGAATAATTTCTGATCCAGGATCGTCCTTCCAAATGGCTGTATT
TATAAAGGTTTTTGGAGCTGCACTGAAGCATCTTATTTTATAGTATATCAACCTTTTGTTTTTAAATTGACCTGC
CAAGGTAGCTGAAGACCTTTTAGACAGTCCCATCTTTTTTTTTAAATTTTTTCTGCCTATTTAAAGACAAATTA
TGGGACGTTTGTAGAACCTGAGTATTTTTCTTTTTACCAGTTTTTTAGTTTGAGCTCTTAGGTTTATTGGAGCTA
GCAATAATTGGTTCTGGCAAGTTTGGCCAGACTGACTTCAAAAAATTAATGTGTATCCAGGGACATTTTAAAC
TGTACACAGTGTATTATTGTGGTTAGGAAGCAATTTCCCAATGTACCTATAAGAAATGTGCATCAAGCCAGCCTGA
CCAACATGGTGAAACCCCATCTGTACTAAACATAAAAAAATTAGCCTGGCATGGTGGTGTACGCCTGTAAATCCCA
GTGACTTGGGAGGCTGAGGCAGGAGAATCGCTTGAACCCGGGAGGCGGAGGTGCAGTGAGCTAAGATCGCGCCA
CTGTACTCCAGCCTGGACAACAGCGAGAGCTCCATCTCAAAAAAAGGAAATGTGTATCAAGAACATGATTAT
CCAGCGGTATTTTCTAATTCAGATCATCAACTGATTATATAGAAGAGTTGGCTTTAAATGTTTGCAATGTGCG
ATGTTGAGAAATGGTATTTCTTCAGTTTTATTTTAGGATTTCTATAGTTTGATGATC

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FIGURE 2339

MSSEEGKLFVGGGLNFNTDEQALEDHFSSFGPISEVVVVKDRETQSRGFGFITFTNPEHASVAMRAMNGESLDGR
QIRVDHAGKSARGTRGGGFGAHGRGRSYSRGGGDQGYGSGRYYDSRPGGYGYGYGRSRDYNGRNQGGYDRYSGGN
YRDNYDN

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FIGURE 2340

AAAAGCAAGCCAGGAGGTGCTTGCGGCCGCTTCTAGTAGTTTCCAGGCGCTGCCGGGCGGCTGGCACTAAGCGGT
CCTGAGGCTGTGGCTACGGCTGCTCCGGAGCTGGTGGCGCCGCGATAGGAGAGCCGATGGCCAAGTGGGGTGAGG
GAGACCCACGCTGGATCGTGGAGGAGCGGGCGGACGCCACCAACGTCAACAACCTGGCACTGGACGGAGAGAGATG
CTTCAAATTGGTCCACGGATAAGCTGAAAACACTGTTCTTGGCAGTGCAGGTTCAAATGAAGAAGGCAAGTGTG
AGGTGACGGAAGTGAGTAAGCTTGATGGAGAGGCATCCATTACAATCGCAAAGGGAACTTATCTTCTTTTATG
AATGGAGCGTCAAATAAAGTGGACAGGTACTTCTAAGTCAGGAGTACAGTACAAAGGACATGTGGAGATCCCCA
ATTTGTCTGATGAAAACAGCGTGGATGAAGTGGAGATTAGTGTGAGCCTTGCCAAAGATGAGCCTGACACAAATC
TCGTGGCCTTAATGAAGGAAGAAGGGGTGAACTTCTAAGAGAAGCAATGGGAATTACATCAGCACCCCTCAAAA
CAGAGTTCACCCAGGGCATGATCTTACCTACAATGAATGGAGAGTCAGTAGACCCAGTGGGGCAGCCAGCACTGA
AACTGAGGAGCGCAAGGCTAAGCCTGCTCCTTCAAAAACCCAGGCCAGACCTGTTGGAGTCAAAATCCCCACTT
GTAAGATCACTCTTAAGGAAACCTTCTGACGTCACCAGAGGAGCTCTATAGAGTGTTTACCACCCAAGAGCTGG
TGCAGGCCTTTACCCATGCTCCTGCAACATTAGAAGCAGACAGAGGTGAAAAGTTCCACATGGTAGATGGCAACG
TCTCTGGGGAATTTACTGATCTGGTCCCTGAGAAACATATTGTGATGAAGTGGAGGTTTAAATCTTGGCCAGAGG
GACACTTTGCCACCATCACCTTGACCTTCATCGACAAGAACGGAGAGACTGAGCTGTGCATGGAAGGTCGAGGCA
TCCCTGCTCCTGAGGAAGAGCGGACACGACAGGGCTGGCAGCGGTACTACTTTGAGGGCATTAAACAGACCTTTG
GCTATGGCGCACGCTTATTTAGGGCCAGCGGCAGGGGACTCCAGCCTGCTGGACACTTCAGTCCAGCTCTCTCC
TGACTGGGGCTTGCGACTCACAGGATTGCATCGTCCCAGCTGCTAACTTGGGGCCGGGGCCCCCTCCCTTCCACAT
ATACCTTGGGTTTGTGCATGTTTTCTGCTGGGTGGGTTGAGAGGGCAATTTCTCTTTTATGTGTACATATGCTAA
ATAACATAATTTAAAAAACAATAA

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FIGURE 2341

MAKWGEGDPRWIVEERADATNVNWWHWTERDASNWSTDKLKTLFLAVQVQNEEGKCEVTEVSKLDGEASINNRKG
KLIFFYEWSVKLNWTGTSKSGVQYKGHVEIPNLSDENSVDEVEISVSLAKDEPDNLVALMKEEGVKLLREAMGI
YISTLKTEFTQGMILPTMNGESVDPVGPALKTEERKAKPAPSKTQARPVGVKIPTCKITLKETFLTSPEELYRV
FTTQELVQAFTHAPATLEADRGGKFHMDGNVSGEFTDLVPEKHIVMKWRFKSWPEGHFATITLTFIDKNGETEL
CMEGRGIPAPEEERTRQGWQRYFEGIKQTFGYGARLF

[illegible]

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FIGURE 2343

MEDSMDMDMSPLRPQNYLFGCELKADKDYHFKVDNDENEHQLSLRTVSLGAGAKDELHIVEAEAMNYEGSPIKVT
LATLKMSVQPTVSLGGFEITPPVVLRLKCGSGPVHISGQHLVAVEEDAEESEDEEEEDVKLLSISGKRSAPGGGSK
VPQKKVKLADEDDDDDEEDDDDDDDDFDDEEAEEKAPVKKSIRDTPAKNAQKSNQNGKDSKPSSTPRSKGQ
ESFKKQEKTPKTPKGPSSVEDIKAKMQASIEKGGSLPKVEAKFINYVKNCFRMTDQEAIQDLWQWRKSL

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FIGURE 2344

CCGCCCTGGAGGCCGGAGCCACTGGGCCTGCGCGCCTCGGCAGCGAGCAGCCGCTTTGCTCGCGTGCAGGAGGCT
GTTTCGCTACCTCACACCCCCGGCTGGCGCTGTGGCCTCGCTTAGCTCTACCGTTTAGCACCCGGCGACATGCACC
CGGTTCGTTTCCGCCAGGATGCGGGAGAGTTGGGGCAAGCTACCTGCGACAGCTTGAACTTTCTAGGGATTCC
GCTCCACCCGCCGTTAGAGCGTATTGCTCATTAAATCCGAGACCTGTGTGCTTGCTACTGAAATAAAAGAAGTA
TTTTTTGCCCCAGAGTCCTTTTAGGACGTTATGACTTTTCTCCTTTGCAAGACTGCAAAAACTGACAAGAAGAC
AAAACTCTTCCCACTCCAGGGACCGGTTGTCTTGAGTTTGGCTAGTAAAGGCTAGCAAGTGAGGCTTTGTCTC
TGCATCCCCTTCCCCCTAACATCCTCAGAGAACCTTCGTTTCTAGAATCTTTCTAGTATTGAGAGACTTCTCCAG
GGTCATGATCCCAAAGGCTTAACCCGTTTACAAGGAGAGAGTTGTCTCCTGACGCCCCAAATGGCAGCTAAAAATG
GAGATACTTTAAGCTCCAACACTGAAGCTTCTCCAAGCAAGAGAGACATAATAGCCAAACTAGAAGAGAAA
CGGGGCCCTCCTCTGCAAAAAACTGCCCAGATCCTGAGCTCTGCCGCCAGAGCTTCAGACGCTTTGTATCA
GAGGTGTCTGGACCCCAAGAGGCGCTCTCCAGCTCCGACAGCTCTGCCGTGAGTTGCAACCCGAGCTGCAC
ACCAAGGAGCAGATTTTGGAGCTTCTGGTGATGGAGCAGTTCTGACCATCTGCCCCGGAGATCCAGGCTCGG
GTCAGGCATCGATGTCCAATGAGCAGCAAGGAGATTGTGACCCTCGTGGAAGATTTTCACAGAGCATCCAAGAAA
CCAAAGCAGTGGGTGGCCGTTTGTATGCAGGGGCAAAAGGTGCTCTTGGAGAAAAGTGGATCTCAGCTTGGAGAA
CAGGAAGTCCAGACTTTCAACCGCAGACTCCTAGGAGAGATCTCAGGGAGAGCTCTCCAGCAGAGCCTTCCCAG
GCAGGAGCTTATGACCGGCTGAGCCCCATCATTGGGAGAAATCCCCACTCCTCCAAGAACCAACCCCAAAATTG
GCTGGGACAGAGGCCCCCAGAATGAGAAGTGACAACAAGGAAAATCCACAACAGGAAGGGGCTAAAGGAGCAAAG
CCATGTGCAAGTGTGAGCTGGCAGATCCAAAGGGAATGGTCTGCAGAATCCTGAACCAAGAGGGGCAAAATATGAGT
GAACCTCGGTTGTACGGAGGCAGGTGAGCTCCCCAAATGCTCAAAAGCCATTTGCTCACTACCAGAGACATTGC
AGGGTGAATACATCAGCAGCCCCCTAAAAAGCCACCCACTGAGAGAGCTAAAGAAAAGCAAAGGAGGTAAACGG
AGTCTGAGCAACCGTTTGAACATCTTGGTCACCAGCCCACCCGCTCAGCAAAGAAACCTACAAATGTGATGAC
TGTGGGAAAAGCTTCACGTGGAATTCAGAGCTGAAGAGACACAAGAGAGTCCACACAGGAGAGAGACCCTACACG
TGCGGAGAGTGTGGAACTGCTTTGGGCGGCAGTCAACCTGAAGCTGCACCAGAGGATCCACACTGGAGAGAAG
CCATACCAGTGTGGCAGTGTGGGAAAAGCTTTCCGCCAGAGCTCAAACCTTACCAGCATACCGACTTACCAT
GGGGACTAAAAGGAGCACTCCATGCTTTAGATTACACGGAAGGTGTTGTGTTTCTCCTCCCCCTTGCTTGCAT
GTAAATCACAAAAGCTGTGTGACTTACAAGGAAAGCACGAGGCCCTTGAGGAATGATGATGCACATTCTGCTGTG
AGGAGGCCCAGAAAAGGCCAACAGGGCCCAACCGTGCATGATGACAGGGTGCAGAGAAGGCAGGTCTGGGCACT
GGGGCAAAGAGAACTTAAGTCTCTGCAGAGAGCAAGGAGTAAGTACTGAGAGAGAATCAGGACAATCCTGCAGGT
GGCCCGCTTACTGTTAAATCGTCCCTCTGTTGCTTTATCCTCTAAAATATGTTAAGGGATAAATCTATATATAT
AGTTATGCATTTGCTGTCATACCAGACAATTTTTTATCATGAGCACACTTCTTTAATAAAGATGAGTGATCTACC
AGAAAAAAAAAAAA

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FIGURE 2345

MAAKMEITLSSNTEASSKQERHIIAKLEEKRGPPLOKNCDPPELCRQSFRRFCYQEVSGPQEALSQLRQLCRQWL
QPELHTKEQILELLVMEQFLTILPPEIQARVRHRCMPSSKEIVTLVEDFHRASKKPKQWVAVCMQGQKVLEKTG
SQLGEQELPDFQPQTPRRDLRESSPAEPSQAGAYDRLSPHHWEKSPLLQEPTPKLAGTEAPRMRSDNKENPQQEG
AKGAKPCAVSAGRSKGNLQNPPEPRGANMSEPRLSRQVSSPNAQKPFQAHYQRHCRVEYISSLKSHPLRELKKS
KGGKRSLSNRLQHLGHQPTRSAKKPYKCDDCGKSFTWNSELKRHKRVHTGERPYTCGECGNCFGRQSTLKLHQRI
HTGEKPYQCGQCGKSFRQSSNLHQHRLHHGD

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FIGURE 2346

TTTGGGTTAGGGAGAGTGCTTTTCGTTTGTGTTTAAATGGGAGAACTGGAGCATGTTGCCAAGGCAGAGAGCCAGC
AGAGAGGGGTGAATGGAAGAAGGAGCGAGAAGGGGGTTACTGACGAAGCCTTATCCTGGAGGAGAGAAGGATGGA
CTCCAGAGCCCAGCTTTGGGGACTGGCCTTGAATAAAAGGAGGGCCACTCTACCTCATCCTGGAGGGAGCACGAA
CCTAAAGGCAGACCCAGAAGAGCTTTTTACAAAAGTAAAGAAAATTGGGAAGGGCTCCTTTGGAGAGGTGTTCAA
AGGCATTGACAATCGGACTCAGAAAAGTGGTTGCCATAAAGATCATTGATCTGGAAGAAGCTGAAGATGAGATAGA
GGACATTCAACAAGAAATCACAGTGCTGAGTCAGTGTGACAGTCCATATGTAACCAAATATTATGGATCCTATCT
GAAGGATACAAAATTATGGATAATAATGGAATATCTTGGTGGAGGCTCCGCACTAGATCTATTAGAACCTGGCCC
ATTAGATGAAACCCAGATCGCTACTATATTAAGAGAAATACTGAAAGGACTCGATTATCTCCATTCGGAGAAGAA
AATCCACAGAGACATTAAAGCGGCCAACGTCTGCTGTCTGAGCATGGCGAGGTGAAGCTGGCGGACTTTGGCGT
GGCTGGCCAGCTGACAGACACCCAGATCAAAAGGAACACCTTCGTGGGCACCCCATCTGGATGGCACCCGAGGT
CATCAAACAGTCGGCCTATGACTCGAAGGCAGACATCTGGTCCCTGGGCATAACAGCTATTGAACCTGCAAGAGG
GGAACCACTCATTCCGAGCTGCACCCCATGAAAGTTTTATTCCCTATTCCAAAGAACAACCCACCGACGTTGGA
AGGAACTACAGTAAACCCCTCAAGGAGTTTGTGGAGGCCTGTTTGAATAAGGAGCCGAGCTTTAGACCCACTGC
TAAGGAGTTATTGAAGCACAAGTTTATACTACGCAATGCAAAGAAAACCTTCTACTTGACCGAGCTCATCGACAG
GTACAAGAGATGGAAGGCCGAGCAGACCATGACGACTCGAGCTCCGAGGATTCCGACGCGGAAACAGATGGCCA
AGCCTCGGGGGGCGAGTATTCTGGGGACTGGATCTTCACAATCCGAGAAAAAGATCCCAAGAATCTCGAGAATGG
AGCTCTTCAGCCATCGGACTTGGACAGAAATAAGATGAAAGACATCCCAAAGAGGCCTTTCTCTCAGTGTGTTATC
TACAATTATTTCTCCTCTGTTTGCAGAGTTGAAGGAGAAGAGCCAGGCGTGCGGAGGGAACTTGGGGTCCATTGA
AGAGCTGCGAGGGGCCATCTACCTAGCGGAGGAGGCGTGCCCTGGCATCTCCGACACCATGGTGGCCAGCTCGT
GCAGCGGCTCCAGAGATACTCTCTAAGTGGTGGAGGAACCTTCATCCCACTGAAATTCCTTTGGCATTGTTGGGGTTT
TGTTTTTCCTTTTTTCTTCTTCTCATCTCCTCCTTTTTTAAAGTCAACGAGAGCCTTCGCTGACTCCACCGAAG
AGGTGCGCCACTGGGAGCCACCCAGCGCCAGGCGCCGTCAGGGACACACAGTCTTCACTGTGCTGCAGCC
AGATGAAGTCTCTCAGATGGGTGGGGAGGGTCAGCTCCTTCCAGCGATCATTGTTATTTTATTACTTTTGT
TTTTAATTTTAACCATAGTGCACATATTCAGGAAAGTGTCTTTAAAAACAAAAACAAACCCTGAAATGTATATT
TGGGATTATGATAAGGCAACTAAAGACATGAAACCTCAGGTATCCTGCTTTAAGTTGATAACTCCCTCTGGAGCT
TGGAGAACTCGCTCTGGTGGATGGGTGTACAGATTTGTATATAATGTCATTTTACGGAAACCCCTTCGGCGTGCA
TAAGGAATCAGTGTGTACAACTGGCCAAGTGCTTCTGTAGATAACGTCAGTGGAGTAAATATTCGACAGGCCAT
AACTTGAGTCTATTGCCTTGCCCTTTATTACATGTACATTTGAATTCTGTGACCAGTGATTGGGTTTTATTTT
GTATTTGCAGGGTTTGTCTTAATAATTAATGCCCTCTCTTACAGAACACTCCTATTTGTACCTCAACAAATGC
AAATTTTCCCCGTTTGGCCCTACGCCCCCTTTGGTACACCTAGAGGTTGATTTCCTTTTTTCATCGATGGTACTATT
TCTTAGTGTTTTAAATTGGAACATATCTTGCCCTCATGAAGCTTTAAATTATAATTTTCAAGTTCTCCCCATGAAG
CGCTCTCGTCTGACATTTGTTTGGAAATCGTGCCACTGCTGGTCTGCGCCAGATGTACCGTCTTTCCAATACGAT
TTTCTGTTGCACCTTGTAGTGGATTCTGCATATCATTTTCCACCTAAAAATGTCTGAATGCTTACACAAATAA
ATTTTATAACACGCTTAAAAA

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FIGURE 2347

MAHSPVQSGLPGMQNLKADPEELFTKLEKIGKGSFGEVFKGIDNRTQKVVAIKIIDLEEADEIEDIQQEITVLS
QCDSFYVTKYYGSKDKLWIIMEYLGGSALDLEPGPLDETQIATILREILKGLDYLHSEKKIHRDIKAANV
LLSEHGEVKLADFGVAGQLTDTQIKRNTFVGTPFWMAPEVIKQSAYDSKADIWSLGITAIELARGEPPHSELHPM
KVLFLIPKNNPPTLEGNYSKPLKEFVEACLNKEPSFRPTAKELLKHKFILRNAKTSYLTTELIDRYKRWKAEQSH
DDSSSESDAETDQASGGSDSGDWIFTIREKDPKNLENGALQPSDLDRNKMKDIPKRPFQSCLSTIISPLFAEL
KEKSQACGGNLGSIEELRGAIYLAEEVCPGISDTMVAQLVQRLQRYSLSGGGTSSH

CGGGCTCCAGCGGCTCCCGCGCCGCAACCTCCTCCTCGGGGAGTCTCCTTGGCCGCCCACTGTCGCGCCCGCCCGCCCGCCCGCTACAGCGAAGACAAGGGCGGCTCCGCTGGCCCCGGGAGCCCGAGTACGGCCACGACCCCGCAGCGGCGGCATCTTCTCCTCCGACTACAAGCGGCATGATGACCTGAAGGAGATGCTGGACACCAACAAGGATTCTCTCAAGCTGGAGGCCATGAAGAGGATTGTGGCGATGATTGCCCGAGGAAAGAATGCTTCAGACCTGTTTTCCGCGGTGGTGAAGAACGTGGCCCTGTAAGAACATAGAGGTGAAGAAGCTTGTCTATGTGTACCTGGTACGCTACGCTGAGGAGCAGCAAGACCTGGCCCTGCTGTCCATCTCCACCTTCCAACGTGGCCCTAAAGGATCCCAACCAGCTGATTTCGTGCCAGTGCCCTCCGTGTCTCTTAGCATCCGTGTGCCCATCATAGTGCCCATCATGATGCTAGCTATCAAGGAAGCCGCCTCGACATGTACCCCTATGTGCGGAAAAACAGCTGCCACGCCATCCCTAAACTCTACAGTTTGGACTCTGACCAGAAAGGATCAGCTGATAGAAGTCATTGAGAAGCTTCTGGCTGACAAGACCACGCTGGTGGCGGGCAGTGTTGGTGATGGCCTTTTGAGGAGGTCTGCCCGGAGCGCATCGACCTGATTACAAAACTACCGGAAACTCTGTAACCTGCTGATCGACGTGGAGGAGTGGGGCCAGGTGGTCATCATCAGCATGCTCACCCGCTACGCCCGACGCAGTTCTGAGCCCCACAGAACGAATCCCTACTAGAGGAGAACCGGAAAAAGCCTTCTACGGCTCAGAGGAGGACGAGGCCAAGGGCGCGGGTCTGAGGAGACGGCCGCGCGGCCGCCCTCCGAAAGCCCTATGTATGGACCCCGACCACCGGTGCTGCTGCGCAACACCAACCCCTGCTGCAGAGCCGACGCGCGGGTGGTGATGGCGGTGGCGCAGCTCTACTTCCACCTGGGCCCAAGGCGGAAGTGGCGTCATCGCCAAGGCGCTGGTGCGCTGCTGCGCAGCCACAGTGAGGTGCAGTACGTTGTGCTCCAGAACGTGGCCACCATTGCCATCAAGCGCCGGGGTATGTTTGAGCCCTACCTGAAGAGCTTCTACATCAGGTCCACCGACCCACCCAGATTAGATCCTGAAGCTGGAAGTGTGACCAACCTGGCCAAATGAGACCAACATTCTACTGTCTACGGGAATTCCAGACCTATATTTCGCAGCATGGACAAGGACTTTGTGGCAGCCACAATCCAGGCCATTGGACGCTGTGCAACTAACATCGGCCGAGTCCGTGACACCTGCCTCAATGGCCTGGTGCAGCTGCTGTCCAACCGTGATGAGCTTGTGTTGCAGAGTCAGTGGTCTGCTAATAAGAAATTGCTACAGATGCAGCCAGCACAACATGGAGAGATCATCAACACATTGGCAAAGCTTACAGACAACATCCAGGTGCCCATGGCCCGAGCCAGCATCCTGTGGCTCATCGGAGAGTACTGTGAGCATGTCCCCAGGATTGCACCTGATGTCTTAAGAAAAATGGCCAAGTCATTACAGCAGAGGAGGATATTGTCAAGCTGCAGGTATCAACCTGGCAGCCAAGCTCTACCTGACCAACTCTAAACAGACAAGCTGCTGACCCAGTATGTGCTGAGTCTGGCCAAATATGACCAGAACTATGATATTGCGCAGCCGGGCGCGCTTCAACCGGCAGCTCATCGTCCCTTCCGAGCAGGGTGGGGCCCTCAGCCGCCATGCCAAGAAGCTCTCCTGGCACCCAAACCAGCTCCAGTCTTGGAGTCATCCTTCAAAGACCGGGACCCTTCCAGCTGGGCTCACTGTCCACCTGCTTAATGCCAAGGCCACAGGCTACCAGGAGCTCCAGACTGGCCGGAGGAAGCCCCAGACCCATCTGTGCGCAACGTGGAGGTACCTGAATGGACCAAGTGTCTAAATCGGGAGAAGAGAAAGGAGAAGGAAAAACCTTCTACTCGGACTCTGAGGGGGAGTCAGGCCCCACGGAGTCCGCAGACAGTGACCTGAGTCTGAGAGTGAATCGGACAGTAAGAGCAGCAGTGAGAGCGGCTCTGGGGAGTCCAGCAGTGAGTCCGACAATGAAGACCAGGATGAGGATGAGGAGAAAGGGAGAGGCAGTGAGAGTGAACAGAGTGAGGAGGATGGTAAGAGGAAGACAAAGAAGAAGGTGCCAGAGAGAAAAGGAGAAGCGTCATCCTCTGATGAGGGCAGCGATTCCAGCAGTAGCTCATCAGAGTCCGAGATGACATCGGAGTCCGAGGAGGAGCAGTTAGAACCTGCCTCCTGGAGCAGGAAAAACCTCCAGCAGCAAAAGTGCTCCTGCAACCAAGGAGATCTCCCTGCTTGATCTAGAGGATTTACCCCTCCAGTGTCCAGCCTGTGTCTCCCCAGCAATTGTGTCTACCAGTCTGGCTGCTGACCTGGAGGGCTGACACTCACAGACTCCACCCTGGTACCGTCTGCTTCTGAGTCCAGTATCGGGTGTGGGCGGCAGGAGCTGCTGCACCGGGTAGCTGGCGAGGGGCTGGCTGTGGACTACACCTTACGCCGCCAACCTTTCTCCGGGGATCCCCACATGGTGTCCGTGCACATCCACTTCTCCAACAGCTCTGATACCCCCATCAAGGGCCTGCATGTGGGCACCTCCAAACTGCCTGCTGGCATCAGCATCCAAGAAATTTCCGAAATTGAGTCCCTGGCACCTGGAATCTGCCACTGCTGTAATGGGCATTAATTTCTGTGACTCAACCCAGGCAGCCAACTTCCAGCTGTGCACCAAGACCCGACAGTTCTACGTCTCCATTACGCCACCTGTTGGGGAGCTGATGGCCCTGTGTTTATGATGAGTGAATGAATGATTTAAGAAGGAACAGGGAAAGCTGATGGGCATGAATGAGATCACAGAGAAACTCATGCTGCCAGACACCTGTGCGAGTGACCACATTGTGGTGCAGAAAGTGACTGCCACTGCCAACCTGGGTCTGTCTCTGTGGGACATCTGATGAGTACAGGTTTGAGGGAGGACACTGACTGGTGGAAGCCTCGTTCTGCTGACCCTGGATGCCCGGCCAGCTGGAGCTGCCAGCTGACTGTCAACAGCGAGAAAAATGGTGATTGGCACCATGCTGGTAAAGGATGTGATACAGGCTCTGACCCAGTGACTTCCAAATGCTGTGACCTGTTGGCTCCCATCTATACCTCCCCATGACACCTAGGCTGTGAGTCTCTCATCTTTCTCTCTCTCTCATCATCTCCTCATGCCAGATAGCATTCAGGGTGTCTCTCTCCCC

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FIGURE 2349

MSAAPAYSEDKGGSSAGPGEPEYGHDPASGGIFSSDYKRHDDLKEMLDTNKDSLKLEAMKRIVAMIARGKNASDLF
PAVVKNVACKNIEVKKLIVYVYLVRYAEQQDLALLSISTFQRGLKDPNQLIRASALRVLSSIRVPIIVPIMMLAI
KEAASDMSPYVRKTAHAIPKLYSLDSQKDQLIEVIEKLLADKTTLVAGSVVMAFEEVCPERIDLIHKNYRKLC
NLLIDVEEWGQVVIISMLTRYARTQFLSPTQNESLLEENAEKAFYGSEDEAKGAGSEETAAAAAPSRKPYVMDP
DHRLRLRNTKPLLQSRSAAVVMAVAQLYFHLGPRRKWRHRQGAGALLRSHSEVQYVVLQNVATMSIKRRGMFEPY
LKSFYIRSTDPTQIKILKLEVLTNLANETNIPTVLREFQTYIRSMKDFVAATIQAIGRCATNIGRVDRDTCNLGL
VQLLSNRDELVVAESVVVIKKLLQMPPAQHGEI IKHLAKLTDNIQVPMARASILWLIGEYCEHVPRIAPDVLKRM
AKSFIAEEDIVKLQVINLAAKLYLTNSKQTKLLTQYVLSLAKYDQNYDIRDRARFTRQLIVPSEQGGALSRHAKK
LFLAPKPAPVLESSFKDRDHFQLGSLSHLLNAKATGYQELPDWPEEAPDFSVRNVEVPEWTKCSNREKRKEKEKP
FYSDSEGESGPTESADSDPESESESDSKSSSESGSGESSESSEDNEDQDEDEEKGRGSESEQSEEDGKRKTKKKVP
ERKGEASSSDEGSDSSSSSESEMTSESEEEQLEPASWSRKTPPSSKSAPATKEISLLDLEDFTPPSVQPVSPPA
IVSTSLAADLEGLTLLTDSTLVPSLLSPVSGVGRQELLHRVAGEGLAVDYTFSRQPFSGDPHMSVHIHFSNSSDT
PIKGLHVGTPKLPAGISIQEFPEIESLAPGESATAVMGINFCDSTQAANFQLCTQTRQFYVSIQPPVGELMAPVF
MSENEFKKEQGKLMGMNEITEKLMLPDTCRSDHIVVQKVTATANLGRVPCGTSDEYRFAGRTLTGGSVLVLLTDA
RPAGAAQLTVNSEKMOVIGTMLVKDVIQALTQ

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FIGURE 2350

CAGACGGCGCTGAGCGCGGCGGGGAGCGGCGTCTCGAGTGTCTCCGTGCGCCCGTCTGTGGCCAAGCAGCCA
GCAGCCTAGCAGCCAGTCAGCTTGCCGCGGCGGCCAAGCAGCCAACCATGCTCAACTTCGGTGCCTCTCTCCAG
CAGACTGCGGAGGAAAGAATGGAATGATTTCTGAAAGGCCAAAAGAGAGTATGTATTCTGGAACAAAACCTGCA
GAGAAAAGTGATTTTGAAGCTGTAGAAGCACTTATGTCAATGAGCTGCAGTTGGAAGTCTGATTTTAAGAAATAC
GTTGAAAACAGACCTGTTACACCAGTATCTGATTTGTGAGGGAAGAGAATCTGCTTCCGGGAACACCTGATTTT
CATACAATCCCAGCATTTTGTGTTGACTCCACCTTACAGTCTCTGACTTTGAACCTCTCAAGTGTCAAATCTG
ATGGCACCAGCGCCATCTACTGTACACTTCAAGTCACTCTCAGATACTGCCAAACCTCACATTGCCGCACCTTTC
AAAGAGGAAGAAAAGAGCCAGTATCTGCCCCAAACTCCCCAAAGCTCAGGCAACAAGTGTGATTCGTACATACA
GCTGATGCCCAGCTATGTAACCACCAGACCTGCCAATGAAAGCAGCCAGCATCCTCAACTATCAGAACAATTCT
TTTGAAGAAGAACCACCTAAATGTTGAGGCTGCAAGAAAGAACATACCATGTGCCGCTGTGTACCAAACAGA
TCCAAATGTGAGAGAAACACAGTGGCAGATGTTGATGAGAAAGCAAGTGTGCTGACTTTTATGACTTTTCTGTGCC
TCCTCAGAGACGGTCATCTGCAGGTCTCAGCCAGCCCCGTGTGTCCCAACAAGAGTCAAGTGTGGTCTCTCCA
CCTGCAGTATCTGCAGGGGAGTGGCACCTATGCCGGTCTGTGCCAGATGGTTCCCTTCCCTGCCAACAAACCT
GTTGTGACAACAGTCTGTTCCAGCACTCTCCAGCCAGCCAGCCAGCCGTTTGGCCCCCTGTTGTGTTTATGGGC
ACACAAGTCCCCAAAGGCGCTGTATGTTTGTGGTACCCAGCCGTTGTGTCAGAGTTCAAAGCCTCCGGTGGTG
AGCCCGAATGGCACCAGACTCTCTCCATTGCCCTGCTCCTGGGTTTTCCCTTCAGCAGCAAAAGTCACTCCT
CAGATTGATTCATCAAGGATAAGGAGTCACATCTGTAGCCACCCAGGATGTGGCAAGACATACTTTAAAGTTCC
CATCTGAAGGCCACACGAGGACGCACACAGGAGAAAAGCCTTTCAGCTGTAGCTGGAAAGGTTGTGAAAGGAGG
TTTGGCCGTTCTGATGAAGTGTCCAGACACAGGCGAACCCACACGGGTGAGAAGAAATTTGCGTGCCCATGTGT
GACCGGCGGTTTATGAGGAGTGACATTTGACCAAGCATGCCCGGCGCCATCTATCAGCCAAGAAGCTACCAAAC
TGGCAGATGGAAGTGAGCAAGCTAAATGACATTGCTCTACCTCCAACCCCTGCTCCCAACAGTGACCAGACCGGA
AAGTGAAGAGTCAGAACTAACTTTGGTCTCAGCGGAGCCAGTGGTGATGTAATAATGCTTCCACTGCAAGTCTG
TGGCCCCACAACGTGGGCTTAAAGCAGAAGCCCCACAGCCTGGCACGAAGGCCCCGCTGGGTTAGGTGACTAAA
AGGGCTTCGGCCACAGGCAGGTACAGAAAGGCAGGTTTCATTTCTTATCACATAAGAGAGATGAGAAAGCTTTT
ATTCCTTTGAATATTTTGAAGGTTTCAGATGAGGTCAACACAGGTAGCACAGATTTGAATCTGTGTGCATAT
TTGTACTTTTACTTTTGTGTTTATACTTGAGACCACTTTTCAATGTGATTCTTCTAAAGCACTGGTTTCAAGA
ATATGGAGGCTGGAAGGAAATAAACATTACGGTACAGACATGGAGATGTAATAAGAGTTTGTATTATTACAAATA
TTGTCATCTTTTTCTAGAGTTATCTTTTATTATTCTTAGTCTTTCCAGTCAACATCGTGGATGTAGTGATTAA
ATATATCTAGAATATCATTTTTTACACTATTGTGAATATTGGAATTGAACGACTGTATATTGCTAAGAGGGCCC
AAAGAATTGGAATCCTCCTTAATTTAATTGCTTTGAAGCATAGCTACAATTTGTTTTGCAATTTTGTGTTTGA
GTTTAACAAATGACTGTATCTAGGCATTTTATTATGCTTTGAACCTTTAGTTTGCCTGCAGTTTCTTGTGTAGATT
TGAAAATTGTATACCAATGTGTTTTCTGTAGACTCTAAGATACACTGCACTTTGTTTAGAAAAAACTGAAGAT
GAAATATATATTGTAAAGAAGGATATTAAGAATCTTAGATAACTTCTTGAAAAGATGGCTTATGTCATCAGTA
AAGTACCTTTATGTTATGAGGATATAATGTGTGCTTTATTGAATTAGAAAATTAGTGACCATTATTCACAGGTGG
ACAAATGTTGTCTGTTAATTTATAGGAGTTTTTGGGGATGTGGAGGTAGTTGGGTAGAAAAATTATTAGAACA
TTCACTTTTGTAAACAGTATTTCTCTTTTATTCTGTTATATAGTGGATGATATACACAGTGGCAAAACAAAAGTA
CATTGCTTAAATATATAGTGAAAATGTCACTATATCTCCCATTTAACATTGTTTTTGTATATTGGGTGTAGA
TTTCTGACATCAAACTTGGACCCTTGGAAAACAAAAGTTTTAATTAATAAAAAATCCTTGTGACTTACAATTTGC
ACAATATTCTTTTGTGTACTTTATATCTTGTTTACAATAAAGAATTC

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FIGURE 2351

MLNFGASLQQTAEERMESISERPKE SMYSWNKTAEKSDFEAVEALMSMSCSWKSDFKKYVENRPVTPVSDLSEEE
NLLPGTPDFHTIPAFCLTPPYSPSDFEPSQVSNLMAPAPSTVHFKSLSDTAKPHIAAPFKEEEKSPVSAPKLPKA
QATSVIRHTADAQLCNHQTCPMKAASILNYQNNSFRRRTHLNVEAARKNIPCAAVSPNRSKCERNIVADVDEKAS
AALYDFSVPSSSETVICRSQPAPVSPQQKSVLVSPPAVSAGGVPPMPVICQMVPLPANNPVVTVVPSTPPSQPPA
VCPVVFMGTQVPKGAVMFVVPQPVVQSSKPPVSPNGTRLSP IAPAPGFSPSAKVTPQIDSSRIRSHICSHPG
CGKTYFKSSHLKAHTRTHTGEKPFSCSWKGCERRFARSDELSRHRRTHTGEKKFACPMCDRRFMRS DHLT KHARR
HLSAKKLPNWQMEVSKLNDIALPPTPAPTQ

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FIGURE 2352

GAAC TGGTGGCAGT GAGAGACTTCGGCGGACATGGCTCCCAGCGTGCCAGCGGCAGAACCCGAGTATCCTAAAGG
CATCCGGGCCGTGCTGCTGGGGCCTCCCGGGCCGGTAAAGGGACCCAGGCACCCAGATTGGCTGAAAACCTCTG
TGCTGCCATTTAGCTACTGGGGACATGCTGAGGGCCATGGTGGCTTCTGGCTCAGAGCTAGGAAAAAGCTGAA
GGCAACTATGGATGCTGGGAACTGGTGAGTGATGAAATGGTAGTGAGCTCATTGAGAAGAATTTGGAGACCCC
CTTGTCGCAAAAATGGTTTTCTTCTGGATGGCTTCCCTCGGACTGTGAGGCAGGCAGAAATGCTCGATGACCTCAT
GGAGAAGAGGAAAGAGAAGCTTGATTCTGTGATTGAATTCAGCATCCCAGACTCTCTGCTGATCCGAAGAATCAC
AGGAAGGCTGATTACCCCCAAGAGTGGCCGTTCTACCACGAGGAGTTCAACCCTCCAAAAGAGCCCATGAAAGA
TGACATCACCGGGGAACCCCTTGATCCGTCGATCAGATGATAATGAAAAGGCCTTGAAAATCCGCCTGCAAGCCTA
CCACACTCAAACACCCCACTCATAGAGTACTACAGGAAACGGGGGATCCACTCCGCCATCGATGCATCCCAGAC
CCCCGATGTCGTGTTGCAAGCATCTTAGCAGCCTTCTCCAAAGCCACATCCTAGTATCAGAAGGCCAGGCGAGA
CTGCAACACTGCTCATCACCCCGGGCGTGATCCCTGCTCTTAGGTGCTGGGCAGAGGGGAAGGGTGGTCAGGGT
GAGGATGGTGAGGGAGGGCTGGTGAGGGGCTCAGAGGAATACTTGAACAACAGCAGTGTTATTGTAGTGTGGCA
GTTTTCTTTTATACATAGGTGAGAGTTTTTAAAGTGTAAGGGAAAAATTAATTTTTTAAAAAACACCATGCTTGGA
GGGTGGGGGTAGAAATAGACACAATATTATTTCTAAGGAATCGGGTTTTTCACTTCTGACTGGTGAAAATAT
TTTTTAAAGCCAGTGCTCTAAGACCTCAGCTTTTATCTCAGAACCCCATGGGTTCAGACCAAGAGTACAGGAAA
TCAAATTGTTGCTCTGTCTATAGCTTGGAACAGGGAGCTTTGATTACTGACTCCGGTTCCACACACTGTAA
GATCAAAAAACCATCTCCACATTTGAAAGAGATGTAAGGTGTATTATAGGGATGGTGGCTCAACAAATCAAGCA
AACTGGAATCAAGGGGAGGGGGAAGGGAATGAAATGGAAGGGAGGCTGATTCCCTTCCCTGACTTACCACTAA
TTTACTAGGCTACCTACTTTTCATGAGTAACCTCTCACAGCTACCCAGCACATGCCACAATCCTATCGTCTTGCT
TCTTTTATCTGCACTGTGTGAAGGGACTCTTTTAAATAAATGAGCAAGTGTCCTAAGCTATGTCATCCAAAGATT
GTCCTTTCCATTCTCAAATCCTGTGACTGGGATCACTCAACAGCACTGTGATGTATTATTTTCAATGAGGTGCCT
TTCTTAAGTACCAAATGCTGCCTTGTTTGGCCCCATAATCAATAAAATATGTTAAATTTGTATCCCTGTTGT
GGCATTTTTTTTAGATAATCTAAGCTAGAAAAATGACATTGAATTCGGACCTGGCTGGAAGGAAAAGAGCCCT
TTCTTGTCGCTGGCAGCTGTGTGGTAGGAGGTCCAAGTATGTGCATATGAGATAAGCCTGCAACCTCTTGACCTT
CAGCTCCTATGCAGGCTTCTCTTGAGCCCAGAGACAAGGCAGCTTGGTCTAGTGGAGATAGCACTGTGCTTGGAG
TTCAGGGGACCTAGGACAAATCCCAGCCAGTTAGTTATTCACTGTGCTCCTGTTTCTCAGCTGAAAAAGGAAGT
TGGTTATGCCACCTTCTTGGCCCTTAATGGCATTAAATGAAATTTATAGGAAGAAGGTTTTTGCTCAGTACCTGGC
ATGCAACAGACATTGGATAAATGTTAGTTGGATCCAGATATACACAGAAAGATATCTGCTTCTGCCAGGCTGGA
TAACTGTTGAATGACACTGTGTCATAGTCTAGA

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FIGURE 2353

MAPSVPAAEPEYPKGIRAVLLGPPGAGKGTQAPRLAENFCVCHLATGDMLRAMVASGSELGKKLKATMDAGKLVS
DEMVELIEKNLETPLCKNGFLLDGFPRIVRQAEMDDLMEKRKEKLDSVIEFSIPDSLLIRRIITGRLIHPKSGR
SYHEEFNPPKEPMKDDITGEPLIRRSDDNEKALKIRLQAYHTQTTPLEYYRKRGIHSAIDASQTPDVVFASILA
AFSKATS

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FIGURE 2354A

GCTTGGGGCCGCCATCTTGGCAAGAGGCGAAGCGGCAGCGGTTCTGTCAAGGGGGCAGCAGGTCCAGAGCTGCT
GGTGCTCCCGTTCCCCAGACCTACCCCTATCCCCAGTGGAGCCGGAGTGGGGCGCGCCCCACCACGCCCTCA
CCATGGTGCTGTTGGCAGCAGCGGTCTGCACAAAAGCAGGAAAGGCTATTGTTTCTCGACAGTTTGTGGAAATGA
CCCGAATCTCGGATTGAGGGCTTATTAGCAGCTTTTCCAAAGCTCATGAACACTGGAAAACAACATACGTTTGTG
AAACAGAGAGTGTAAGATATGTCTACCAGCCTATGGAGAACTGTATATGGTACTGATCACTACCAAAAACAGCA
ACATTTTGAAGATTTGGAGACCCTAAGGCTCTTCTCAAGAGTGATCCCTGAATATTGCCGAGCCTTAGAAGAGA
ATGAAATATCTGAGCACTGTTTGTATTGATTTTGTCTTTTGTGAAATTGTCGCACTGGGATACCGGGAGAATG
TTAAGTTGGCAGAGATCAGAACCTTCACAGAAATGGATTCTCATGAGGAGAAGGTGTTTCAGAGCCGTCAGAGAGA
CTCAAGAACGTGAAGCTAAGGCTGAGATGCGTCGTAAAGCAAAGGAATTACAACAGGCCCGAAGAGATGCAGAGA
GACAGGGCAAAAAAGCACCAGGATTGCGGATTGTCAGCTCTGCAGTATCTGGAGGCAGCAGCTGCCATGA
TCACAGAGACCATCATTGAACTGATAAACCAAAAGTGGCACCTGCACCAGCCAGGCCTTCAGGCCCCAGCAAGG
CTTTAAACTTGGAGCCAAAGGAAAGGAAGTAGATAACTTTGTGGACAAATTAATCTGAAGGTGAAACCATCA
TGCTCTCTAGTATGGGCAAGCGTACTTCTGAAGCAACCAAAATGCATGCTCCACCCATTAATATGGAAGTGTAC
ATATGAAGATTGAAGAAAAGATAACATTAACCTGTGGACGAGACGGAGGATTACAGAATATGGAGTTGCATGGCA
TGATCATGCTTAGGATCTCAGATGACAAGTATGGCCGAATTCGTCTTCATGTGGAATGAAGATAAGAAAGGGG
TGCAGCTACAGACCCATCCAATGTGGATAAAAACTTTTCACTGCAGAGTCTCTAATTGGCCTGAAGAATCCAG
AGAAGTCATTTCCAGTCAACAGTGACGTAGGGGTGCTAAAGTGGAGACTACAAACCACAGAGGAATCTTTTATTC
CACTGACAATTAATTGCTGGCCCTCGGAGAGTGGAAATGGCTGTGATGTCAACATAGAATATGAGCTACAAGAAG
ATAATTTAGAAGTGAATGAATGTGTTATCACCATCCCACTCCCGTCTGGTGTGCGCGCGCCTGTTATCGGTGAGA
TCGATGGGGAGTATCGACATGACAGTCGACGAAATACCCTGGAGTGGTGCCTGCCTGTGATTGATGCCAAAAATA
AGAGTGGCAGCCTGGAGTTTAGCATTGCTGGGCAGCCCAATGACTTCTTCCCTGTTCAGTTTCTTTGTCTCCA
AGAAAAATTACTGTAACATACAGGTTACCAAGTGACCCAGGTAGATGGAAACAGCCCCGTGAGTTTTCACAG
AGACCACTTTCTAGTGATAAGTATGAAATTCGTAAATACCAAGAAGAGGGAGCTGAAAAGGAAATTTTCAGA
TTAATAAAGAAGACCCAATGATGGCTGAAGAGTTTTTCCAGATTTACAAGCCACTGGAGACCCCTTTTTCTG
ATACAATGCACGATTCTCTGCGCGCAAGGACCCTCGACTCACCCCATGTTTCAGTGTACAGAGACATTCTTTG
ATAAGGAAATGGCACAACATAAAGGAAAGGCTGCTAATTTTTCTTTGGCAGATTGTATTGGCCAGCAGGAAAGC
AAGCTCTCCAGAGAATGCCCCAGTTAAATACCTCCTTACCTTTACCTAAGTTGCTCCTTTATTTTTATTTAT
TATTATTATTATTATTATTATTTTTTGAGATGGAGTCTCACTTTGTAACCCAGGCTGGAATGCAATGGCATGATC
TCAGCTCACTGCAACCTCCGCCTCCTGGGTTCAAGCAAGTCTCCTGCCTCAGCCTCCGAGTAGCTGGGACTACAG
GTGCAGCCACCACGCCCTGGCTAATTTTTGTATTTTAGTAGAGACGGGGTTTACCCTGTTGCCAGGCTGGTC
GCGAATCCTGAGCTCAGGCAATCCGCCACCTCAGCCTCCCAAAGTGTGGGATTACAGGCATGAGCCACCATG
CCCAGCTGCTCCTTTATTTAATCCCTAAATATAATCCCTAAATATAGTTATATTTTCACTTAGTTTGTTTTA
AAAAGTTTCTCTGTAGAAAATTTAATCATTACACCTTTACCTTTAGGTTTTCTTTCTATACATTCACTGCA
GGCACTGGGATCATCTGTTTACAGGCATTATATTTATTTGGCACTCCTGGAACAAGTATACTAACCATTCTTG
ATTTTTGGACTATTTCAGGTGAACATTATTTGAGGGGTATGGGGTCTAGAAGTTAAAAGATACGCATGTCTTCTGTTC
TTTTCCCGTATCAATTCATTCCCTTCATCTCTTTGCCAAGTTGTTTTCTTTTCAGGGCCTGTCCTTCCAGTTTGA
ACAGTACCATGAATCCCACTTGTGTCAATATTAAAGATAGCTGAGAAGCACCTTTCAAATGGCACAGTCCCTCTT
CAAGATGTCTAAAAGAATGGTTATGTCTGTCCAGTTAGGGATTTCACATCCACATGTAATCATGTCTGCTGCTGT
TGCTACCCAAATTTTCATTTCTCCACATTTTGGGTACTTAAGCTAAAACGTAATGGCCACAGTCTGTAATCCATT
CACATTCCTCAGTTTACCACCTCCCTCTTCCAGACTGCACTCTCTGTATCAGTCCCTCCTTCTAACAGAAA
TGGGGTTATGATTTTGAAGGCTGTGGGTTTCCAGGAGTCTTTGCCAATCCTGTTGGCCCTAACTATCAAGGAGGC
TCCATTTACCAATTTGATTTTTGCAATTTCCAGGAGCAACTGATTGTTTCGATATGTACATATTACTCACGTATA
CCCCATTTCTTCCAGTCAGCCCAACATTTTCCACAGTCTGTCCCATCTCTGAAATCCTTCTCTCTTTCCC
CCTAAGTCTTTTGTGATCATCATGTACTGGTGGTTTCTCGGTTCCATCTCATCCATTTCTTTTCAATGGAGAC
TACAGCGTCAGCCAGCTCAGCCTTGGCTTTTAACTCAATATTCAGTCCATAGGGGTGGTTAAAAGTTGCTGCAA
GGCTGCAGGCACTGGCAGTGGGAAGAGGCAGACGACTAGATGACTTCTGCACTTTTAGCTGGTTGAAAAGTACCA
CTCCCACTCTGAACATCTGGCCGTCCCTGCAAGAGTGTACTGTGCTTGAAGCAGAGCACTCACACATAAATGGC
TGTGTGTGGAATTGCTTGCCAAAGAAGTTTCTAGCCTTTCCCTTTCCCTTAAGTGCATCAGGGAAGAATTCTTAT

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FIGURE 2354B

CTCTAGCTTGGTTTCCACATGAGGTTTTCTGAGAAGGGCTTGGGACAAGAAGTCTGTCATGTTAGTTAAGCAGG
CAAGAAATCCTACTAATCCAGTTTTGTTTGAAAGTTGTTTGCCGTATGATTTTTTAAAAGTCAAGTTTAATTTC
AAAAAACCTTTTTTTCTGAGATTACTTTTGGGGTAATATTTAAATGAGAGACATTTTGTAAACCCTGTAAAATA
CATAGGGAATATAACATTCCAGTGTATACAAAGAAGGCAAATCTTTAATCAAATAAAGCGTATTATAAATGAG
AAAAAAAAAAAAAAAAA

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FIGURE 2355

MVLLAAAVCTKAGKAIVSQFVEMTRTRIEGLLAAPKLMNTGKQHTFVETESVRYVYQPMKLYMVLITTKNSN
ILEDLETIRLFSRVIPEYCRAL EENEISEHCFDLIFAFDEIVALGYRENVNLAQIRTFTEMDSHEEKVFRVRET
QEREAKAEMRRKAKELQQARRDAERQGKKAPGGFGSSAVSGGSTAAMITETIIETDKPKVAPAPARPSGPSKA
LKLGAKEVDNFVDKLGSEGETIMSSSMGKRTSEATKMHAPPINMESVHMKIEEKITLTCGRDGGLQNMELHGM
IMLRISDDKYGRIRLHVENEDKKGVLQTHPNVDKKLFTAESLIGLKNPEKSFPVNSDVGVKWLQTTESFIP
LTINCWPSESGNGCDVNI EYELQEDNLELNDVVITIPLPSGVGAPVIGEIDGEYRHSRRNTLEWCLPVIDAKNK
SGSLEFSIAGQPNDFFPVQVSFVSKKNYCNIQVTKVTQVDGNSPVRFTETTTFLVDKYEIL

CTTCCAGCTGGTGGGAGTTGACGACGCTGGTGGCTGGGCGCTACTTTATCTAGTTTCGGGAAGTTGGGTT
GTGGGGTCATACCTGTCTGTCTGCTCCACGCTTTCTTGGGTTTCTTCCGACGGCGTGGGGCCTCGCTAAGGAATT
CCCGGCCCTCAGGGCCACGGCTTTAGCGGTGTCTTTTGCAGAGTCTTCGTAAGTACATCTTAAAGCTGTCAAGA
TGGTTCTAGCAGACCTTGAAGAAAAATAACATCAGCATTACGCTCATTGAGCAATGCCACCATTATCAATGAAG
AGGTATTGAATGCTATGCTAAAAGAAGTCTGTACCCTTTGTTGGAAGCAGATGTTAATATTAACTAGTGAAGC
AACTAAGAGAAAAATGTTAAGTCTGCTATTGATCTTGAAGAGATGGCATCTGGTCTTAAACAAAAGAAAAATGATTC
AGCATGCTGTATTTAAAGAAGTCTGTGAAGCTTTGTAGACCTGGAGTTAAGGCATGGACACCCACTAAAGGAAAAAC
AAAAATGTGATTATGTTTGTGGATTGCAAGGGAGTGGTAAAAACAACAACATGTTCAAAGCTAGCATATTATTACC
AGAGGAAAGGTTGGAAGACCTGTTTAAATATGTGCAGACACATTAGAGCAGGGGCTTTTGACCAACTAAAAACAGA
ATGCTACCAAAGCAAGAATTCCATTTTATGGAAGCTATACAGAAATGGATCCTGTCATCATTGCTTCTGAAGGAG
TAGAGAAATTTAAAAATGAAAATTTTGAATATTATTGTTGATACAAGTGGCCGCCACAAACAAGAAGACTCTT
TGTTTGAAGAAATGCTTCAAGTTGCTAATGCTATACAACCTGATAACATTGTTTATGTGATGGATGCCTCCATTG
GGCAGGCTTGTGAAGCCAGGCTAAGGCTTTTAAAGATAAAGTAGATGTAGCCTCAGTAATAGTGACAAAACCTTG
ATGGCCATGCAAAAGGAGGTGGTGCACCTCAGTGCAGTCGCTGCCACAAAAAGTCCGATTATTTTCATTGGTACAG
GGGAACATATAGATGACTTTGAACCTTTTCAAACACAGCCTTTTATTAGCAAACTTCTTGGTATGGGCGACATTG
AAGGACTGATAGATAAAGTCAACGAGTTGAAGTTGGATGACAATGAAGCACTTATAGAGAAGTTGAAACATGGTC
AGTTTACGTTGCGAGACATGTATGAGCAATTTCAAAATATCATGAAAATGGGCCCCCTTCAGTCAGATCTTGGGGA
TGATCCCTGGTTTTTGGGACAGATTTTATGAGCAAAGGAAATGAACAGGAGTCAATGGCAAGGCTAAAGAAATTAA
TGACAATAATGGATAGTATGAATGATCAAGAACTAGACAGTACGGATGGTGCCAAAGTTTTTGTAAACAACCAG
GAAGAATCCAAAGAGTAGCAAGAGGATCGGTGTATCAACAAGAGATGTTCAAGAACTTTTGACACAATATACCA
AGTTTGCACAGATGGTAAAAAAGATGGGAGGTATCAAAGGACTTTTCAAAGGTGGCGACATGTCTAAGAATGTGA
GCCAGTCACAGATGGCAAAATTGAACCAACAAATGGCCAAATGATGGATCCTAGGGTTCTTCATCACATGGGTG
GTATGGCAGGACTTCAGTCAATGATGAGGCAGTTTCAACAGGGTGCTGCTGGCAACATGAAAGGCATGATGGGAT
TCAATAATATG**TAA**AGAAAAATGCCTTAATATAAACTGACTCAGTTGAATACCTAATTTGCTGAGACCTCAGCGTT
TCCCTTCTTTTTCGAATTGGGGGGAAAGTGATTTTCTTCTGCTATCATGCACCTTTCCCTTTCTTCTCGCCC
GCTTTTCCCTCCTTTTCTTTTCCCTCCTTCTTCCCTCCCTTAAATATAAGGGAGAAATACATGGTTTGTGTG
AAATCATTATATGTTTGCCTTAGATTTTCTTCTGTTTTCCATCATAACACTTAAGTTAAATCATGATGTAAAA
TTTTAGTACTTAAAGGTTTTTAATATCTCGAAGGCCAAGCATTGCATTTGTAAACAGTCCTGGTCAGTAGTTAA
ATAATGTTTCAATTAAAGTGCTGTAAAATAAACTCAAAGTGGTTATAAAAAAAAAAAAAAAAAA

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FIGURE 2357

MVLADLGRKITSALRSLSNATIINEEVLNAMLKEVCTALLEADVNIKLVKQLRENVKSAIDLEEMASGLNKRKMI
QHAVFKELVKLVDPGVKAWTPKKGQNVIMFVGLQGSGKTTTCSKLAYYYQRKGWKTCLICADTFRAGAFDQLKQ
NATKARIPFYGSYTEM DPVIIASEGVEKFKNENFEIIIVDTSGRHKQEDSLFEEMLQVANAIQPDNIVYVMDASI
GQACEAQAKAFKDKVDVASVIVTKLDGHAKGGGALSAVAATKSPIIFIGTGEHIDDFEFKTPPFISKLLGMGDI
EGLIDKVNELKLDDNEALIEKLKHGQFTLRDMYEQFQNMKMGPFSQLGMIPGFGTDFMSKGNEQESMARLKKL
MTIMDSMNDQELDSTDGAKVFSKQPGRIQRVARGSGVSTRDVQELLTQYTKFAQMVKKMGGIKGLFKGGDMSKNV
SQSQMAKLNQQMAKMMDPRLHMHMGGMAGLQSMRQFQQGAAGNMKGMMGFNNM

CTCAGACTGCTCTCTCTCTCTGAGCTGTAAGAAATATGTTCTCCAGGGCCAGTGCTGCTGCGATCGAGTCCCACCT
TCCAAGTCTCTGGCATCTCAATGCACTCTGGGAAGCTACCTGCATTAAAGTCAGGACTGAGCACACAGGTGAACCTCA
GAAAGAAGAAGCTATGCGCCGAGTGATTCTGGAGAGCATCTTTCTGAAGCGATCCCAACAGAAAAAGAAAACATC
ACCTCTAAACTTCAAGAAGCGCCTGTTTCTCTTGACCGTGCACAACTCTCCTACTATGAGTATGACTTTGAACG
TGGGAGAAGAGGCAGTAAGAAGGGTTCAATAGATGTTGAGAAGTCACTTGTGTTGAAACAGTGGTTCCTGAAAA
AAATCCTCCTCCAGAAAAGACAGATTCCGAGAAGAGGTGAAGAGTCCAGTGAAATGGAGCAAATTTCAATCATTGA
AAGGTTCCCTTATCCCTTCCAGGTTGTATATGATGAAGGGCCTCTCTACGTCTTCTCCCAACTGAAGAACTAAG
GAAGCGGTGGATTACCAGCTCAAAAACGTAATCCGGTACAACAGTGATCTGGTTTCAGAAATATCACCTTGCTT
CTGGATCGATGGGCAGTATCTCTGCTGCTCTCAGACAGCCAAAAATGCTATGGGCTGCCAAATTTTGAGAACAG
GAATGGAAGCTTAAACCTGGGAGTTCTCACCGGAAGACAAAAAGCCTCTTCCCCAACGCGCTGAGGAGGACCA
GATCTTGAAAAAGCCACTACCGCTGAGCCAGCAGCAGCACCAGTCTCCACAAGTGAGTGAAAAAGGTTGTGGC
CCTTTATGATTACATGCCAATGAATGCAATGATCTACAGCTGCGGAAGGGTGATGAATATTTATCTTGGAGGA
AAGCAACTTACCATGGTGGAGAGCACGAGATAAAAATGGGCAGGAAGGCTACATTCTAGTAAGTATGTCAGTGA
AGCAGAAGACTCCATAGAAATGTATGAGTGGTATTCCAAACACATGACTCGGAGTCAGGCTGAGCAACTGCTAAA
GCAAGAGGGGAAAGAAGGAGGTTTCATTGTCAGAGACTCCAGCAAAGCTGGCAAATATACAGTGTCTGTGTTTGC
TAAATCCACAGGGGACCCTCAAGGGGTGATACGTCATTATGTTGTGTGTTCCACACCTCAGAGCCAGTATTACCT
GGCTGAGAAGCACCTTTTACGACCATCCCTGAGCTCATTAACTACCATCAGCACAACTCTGCAGGACTCATATC
CAGGCTCAAATATCCAGTGCTCAACAAAAACAAGATGCACCTTCCACTGCAGGCCTGGGATACGGATCATGGGA
AATTGATCCAAAGGACCTGACCTTCTTGAAGGAGCTGGGGACTGGACAATTTGGGGTAGTGAAGTATGGGAAATG
GAGAGGCCAGTACGACGTGCCATCAAGATGATCAAAGAAGGCTCCATGTCTGAAGATGAATTCATTGAAGAAGC
CAAAGTCATGATGAATCTTTCCCATGAGAAGCTGGTGCAGTTGTATGGCGTCTGCACCAAGCAGCGCCCCATCTT
CATCATCACTGAGTACATGGCCAATGGCTGCTCTGAAGTACCTGAGGGAGATGCGCCACCGCTTCCAGACTCA
GCAGCTGCTAGAGATGTGCAAGGATGTCTGTGAAGCCATGGAATACCTGGAGTCAAAGCAGTTCTTCCAGGAGA
CCTGGCAGCTCGAAACTGTTTGGTAAACGATCAAGGAGTTGTTAAAGTATCTGATTTGGCCCTGTCCAGGTATGT
CCTGGATGATGAATACACAAGCTCAGTAGGCTCCAAATTTCCAGTCCGGTGGTCCCCACCGGAAGTCTCGATGTA
TAGCAAGTTCAGCAGCAAATCTGACATTTGGGCTTTTGGGGTTTGTATGTGGGAAATTTACTCCTGGGGAAGAT
GCCATATGAGAGATTTACTAACAGTGAGACTGCTGAACACATTGCCAAAGGCTACGCTCTCTACAGGCCATCATCT
GGCTTCAGAGAAGGTATATACCATCATGTACAGTTGTTGGCATGAGAAAGCAGATGAGCGTCCCACCTTCAAAT
TCTTCTGAGCAATATTTAGATGTCATGGATGAAGAAATCCTGAGCTCGCCAATAAGCTTCTTGGTTCTACTTCTC
TTCTCCACAAGCCCCAATTTCTTCTCAGAGGAAATCCCAAGCTTAGGAGCCCTGGAGCCTTTGTGCTCCAC
TCAATACAAAAAGCCCCCTCTCATACCTGCGGATGCACCTCTTCTTGTATTCCCTGGGATAGTGGCTTCTGAGC
AAAGGCCAAAAAATATTGTGCTTGAAATTTCCCGAGAGAATTAAGACAGACTGAATTTGCGATGAAAAATATTT
TTAGGAGGGAGGATGTAAATAGCCGCACAAAGGGGTCCAAACAGCTCTTTGAGTAGGCATTTGGTAGAGCTTGGG
GTGTGTGTGTGGGGGTGGACCGAATTTGGCAAGAATGAAATGGTGTCTATAAAGATGGGAGGGGAGGGTGTTTTGA
TAAATAAATTTAGAAAGCTTAAAAA

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FIGURE 2359

MAAVILESIFLKRSQQKKKTSPLNFKKRLFLLTVHKLSYYEYDFERGRRGSKKGSIDVEKITCVETVVPKNNPP
ERQIPRRGEESSEMEQISIIERFPYPFQVVYDEGPLYVFSPTTEELRKRWIHQLKNVIRYNSDLVQKYHPCFWIDG
QYLCCSQTAKNAMGCQILENRNGSLKPGSSHRKTKKPLPPTPEEDQILKKPLPPEPAAAPVSTSELKKVVALYDY
MPMNANDLQLRKGDEYFILEESNLPWWRRARDKNGQEGYIPSNYVTEEDSIEMYEWYSKHMTRSQAQQLLKQEGK
EGGFIVRDSSKAGKYTVSVFAKSTGDPQGVIRHYVVCSTPQSQYYLAEKHLFSTIPELINYHQHNSAGLISRLKY
PVSQQKNAPSTAGLGYGSWEIDPKDLTFLKELGTGQFGVVKYGKWRGQYDVAIKMIKEGSMSEDEFIEEAKVMM
NLSHEKLVQLYGVCTKQRPFIITEYMANGCLLNYLREMRHRFQTQQLLEMCKDVCEAMEYLESKQFLHRDLAAR
NCLVNDQGVVKVSDFGLSRYVLDDEYTSSVGSKFPVRWSPPEVLMYSKFSSKSDIWAFGVLMWEIYSLGKMPYER
FTNSETAEHIAQGLRLYRPHLASEKVYTIMYSCWHEKADERPTFKILLSNILDVMDEES

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FIGURE 2360A

GAATTCCTCCTCTGCTCGCTCTGCTCGCAGTCACAGACACTTGAGCACACGCGTACACCCAGACATCTTCGG
GCTGCTATTGGATTGACTTTGAAGTTCTGTGTGGGTCGCCGTGGCTGCATGTTTGAATCAGGTGGAGAAGCACT
TCAACGCTGGACGAAGTAAAGATTATTGTTGTTATTTTTTTTTTCTCTCTCTCTCTCTCTTAAGAAAGGAAAAATA
TCCAAGGACTAATCTGATCGGGTCTTCCTTCATCAGGAACGAATGCAGGAATTTGGGAAGTACGATGCAAGT
GCTGAAGAAGGAGATTTGTTTGGAGGAAACAGGAAAGAGAAAGAAAGGAAGGAAAAATACATAATTTACAGGGA
CGAGAGAGAGAAGAAAAACGGGGACTATGGGGAGAAAAAAGATTGAGATTACGAGGATTATGGATGAACGTAACA
GACAGGTGACATTTACAAAGAGGAAATTTGGGTTGATGAAGAAGGCTTATGAGCTGAGCGTGCTGTGTGACTGTG
AGATTGCGCTGATCATCTTCAACAGCACCAACAAGCTGTTCCAGTATGCCAGCACCGACATGGACAAAGTGCTTC
TCAAGTACACGGAGTACAACGAGCCGCATGAGAGCCGGACAACTCAGACATCGTGGAGACGTTGAGAAAGAAGG
GCCTTAATGGCTGTGACAGCCAGACCCGATGCGGACGATTCCGTAGGTACAGCCCTGAGTCTGAGGACAAGT
ACAGGAAAATTAACGAAGATATTGATCTAATGATCAGCAGGCAAAGATTGTGTGCTGTTCCACCTCCCAACTTCG
AGATGCCAGTCTCCATCCCAAGTGTCCAGCCACAACAGTTTGGTGTACAGCAACCCTGTCAGCTCACTGGGAAACC
CCAACCTATTGCCACTGGCTCACCTTCTCTGCAGAGGAATAGTATGTCTCTGGTGTAAACACATCGACCTCCAA
GTGCAGGTAACACAGGTGGTCTGATGGGTGGAGACCTCACGTCTGGTGCAGGCACCAAGTGCAGGGAACGGGTATG
GCAATCCCCGAAACTCACCAGGTCTGCTGGTCTCACCTGGTAACCTTGAACAAGAATATGCAAGCAAAATCTCCTC
CCCCAATGAATTTAGGAATGAATAACCGTAAACCAGATCTCCGAGTCTTATTCCACCAGGCAGCAAGAATACGA
TGCCATCAGTGTCTGAGGATGTGACCTGCTTTTTGAATCAAAGGATAAATAACTCCAGTCGGCTCAGTCATTGG
CTACCCCAAGTGGTTTCCGTAGCAACTCTACTTTACCAGGACAAGGAATGGGAGGATATCCATCAGCCATTTCAA
CAACATATGGTACCGAGTACTCTCTGAGTAGTGCAGACCTGTCATCTCTGCTGCTGGGTTTAAACCCGCCAGCGCTC
TTCACCTTGGTTTCACTAAGTGGCTGGCAACAGCAACACCTACATAACATGCCACCATCTGCCCTCAGTCAGTTGG
GAGCTTGCCTAGCACTCATTATCTCAGAGTTCAAATCTCTCCCTGCCTTCTACTCAAAGCTCAACATCAAGT
CAGAACCTGTTTCTCTCTAGAGACCGTACCACCACCCCTTCGAGATACCCACAACACACGCGCCACGAGGCGG
GGAGATCTCTGTGACAGCTTGAGCAGCTGTAGCAGTTCTGACGCGGAGCGACCGAGAGGATCACCGBAAGC
AATTCCACTCCCCATTGGACTCACCAGACCTTCGCCGAGCAAGGGAAGTCCCTCAGTCAAGCGCATGCGAC
TTTCTGAAGGATGGGCAACATGATCAGATTATTACTTACTAGTTTTTTTTTTTTTTTCTTGCAGTGTGTGTGTGTGC
TATACCTTAATGGGGAAGGGGGTGCATATGCATTATATGTCCGTGTGTGAAAAAAGTCAAGTACTCT
GTTTTGTAAAGTACTTTTAAATTGCCTCAGTGATACAGTATAAGATAAACAGAAATGCTGAGATAAGCTTAGC
ACTTGAGTTGTACAACAGAACTTGTACAAAATAGATTTTAAAGCTAATCTTTTCACTGTTGTGCTCCTTG
CAAAATGTATGTTACAATAGATAGTGTGATGTGCAGGTTCAACGTTATTTACATGTAAATAGACAAAAGGAAC
ATTTGCCAAAAGCGGCAGATCTTACTGAAAGAGAGAGCAGCTGTTATGCAACATATAGAAAAATGTATAGATGC
TTGGACAGACCCGTAATGGGTGGCCATTGGTAAATGTTAGGAACACACCAGGTACCTGACATCCCAAGAATGC
TCACAAACCTGCAGGCATATCATTGGCGTATGGCACTCATTAAAAAGGATCAGAGACCATTAAAAAGAGGACCATA
CCTATTAAAAAATGTGGAGTTGGAGGGCTAACATATTTAATTAATAAATAAATAAATCTGGGTCTGCATCT
CTTATTAAATAAAAAATATAAAAAATGTACATTACATTTTGCTTATTTTTCATATAAAAGGTAAGACAGAGTTTGC
AAAGCATTGTGGCTTTTGTAGTTTACTTAAGCCAAAATGTGTTTTTCCCTTGATAGCTTCGCTAATATTT
TAAACAGTCCTGTAAAAAACCAAAAGGACTTTTGTATAGAAAGCACTACCCTAAGCCATGAAGAACTCCATGC
TTTGCTAACCAAGATAACTGTTTCTCTTTGTAGAAGTTTTGTTTTGAAATGTGTATTTCTAATTATATAAAAT
ATTAAGAATCTTTAAAAAATCTGTGAAATTACATGCTTGTGTATAGCTTTCTAATATATATAATATTATGGT
AATAGCAGAAGTTTGTATCTTAATAGCGGGAGGGGGTATATTGTGAGTTGCACATTTGAGTAACTATTTT
CTTCTGTTTTCTTTTACTCTGCTTACATTTTATAAGTTTAAAGGTCAGCTGTCAAAGGATAACCTGTGGGGTTA
GAACATATCACATTGCAACACCTTAAATTTGTTTTAATACATTAGCAATCTATTGGGTCAACTGACATCCATTGT
ATATACTAGTTTCTTTCATGCTATTTTATTTTGTGTTTTTGCATTTTATCAAATGCAGGGCCCCCTTCTGATCT
CACCATTTCAACATGCATCTTGAATTCAGTAAGTGCATATCCTAAGTTCGCCATATTCTAAATCATCTGGTTGG
TTTTAGCCTAGAAATTTGATACGCTTTTTAGAAATATGCCAGAAATAGAAAAGCTATGTTGGGGCACATGTCCTG
CAAAATATGGCCCTAGAAAACAAGTATGGAATTTACTTGGTGAATAAGTTATAAATCCCACAGAAGAAAAATG
TGAAAGACTGGGTGTAGACAAGAAGGAAGCAGGTAAGGGATAGTTGCTTTGTCATCCGTTTTTAATTATTTTA
ACTGACCTTGAACATCTTGTGAGCAATATAGGACTGTTGAACAATCCCGGTGTGTGAGGACCCCAATGTAC
TTCTGCATAAAGCATGTATGTCATCTATTTTTCTTCAATAAAGAGATTTAATAGCCATTTCAAGAAATCCCAT

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FIGURE 2360B

AAGAACCTCTCTATGTCCCTTTTTTAAATTTAAAAAATGACTCTTGTCTAATATTCGTCTATAAGGGATTAATT
TTCAGACCCTTTAATAAGTGAGTGCCATAAGAAAGTCAATATATATTGTTTAAAAGATATTCAGTCTAGGAAAG
ATTTTCCTTCTCTTGGAATGTGAAGATCTGTCGATTTCATCTCCAATCATATGCATTGACATACACAGCAAAGAAG
ATATAGGCAGTAATATCAACACTGCTATATCATGTGTAGGACATTTCTTATCCATTTTTTCTCTTTTACTTGCA
AGTTGCTATGTGTTTCTCATGTAAAAGGCTGCCGCTGGGTGGCAGAAGCCAAGAGACCTTATTAAGGCTAT
ATTTTCTTAACTTGATCTGAAATCCACAATTAGACCACAATGCACCTTTGGTTGTATCCATAAAGGATGCTAGC
CTGCCTTGACTAATGTTTTATATATT

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FIGURE 2361

MGRKKIQITRIMDERNRQVTFTRKRFGLMKKAYELSVLCDCEIALIIFNSTNKLFOYASTDMDKVLLKYTEYNEP
HESRTNSDIVETLRKKGLNGCDSPDPDADDSVGHSPESSEDKYRKINEDIDLMSRQRLCAVPPPNFEMPVSIPVS
SHNSLVYSNPVSSLGNPNLLPLAHPQLQRNSMSPGVTHRPPSAGNTGGLMGGDLTSGAGTSAGNGYGNPRNSPGL
LVSPGNLKNMQAKSPPPMNLGMNNRKPDRLRVLIIPPGSKNTMPVSEDVDLLNQRINNSQSAQSLATPVVSVAT
PTLPGQGMGGYPSAISTTYGTEYSLSSADLSSLSGFNTASALHLGSVTGWQQQHLHNMPPSALSQLGACTSTHLS
QSSNLSLPSTQSLNIKSEPVSPPRDRTTTTPSRYPQHTREAGRSPVDSLSSCSSSYDGSREDHRNEFHSPIGLT
RPSDERESPSVKRMRLSEGWAT

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FIGURE 2362

CCACCATGCTCGCCCTGGAGGCTGCACAGCTCGACGGGCCACACTTCAGCTGTCTGTACCCAGATGGCGTCTTCT
ATGACCTGGACAGCTGCAAGCATTCCAGCTACCCTGATTAGAGGGGGCTCCTGACTCCCTGTGGGACTGGACTG
TGGCCCCACCTGTCCCAGCCACCCCTATGAAGCCTTCGACCCGGCAGCAGCCGCTTTTAGCCACCCCCAGGCTG
CCCAGCTCTGCTACGAACCCCCACCTACAGCCCTGCAGGGAACCTCGAACTGGCCCCCAGCCTGGAGGCCCCGG
GGCCTGGCTCCCCGCATACCCACGGAGAACTTCGCTAGCCAGACCCTGGTTCCCCCGGCATATGCCCGTACC
CCAGCCCTGTGCTATCAGAGGAGGAAGACTTACCGTTGGACAGCCCTGCCCTGGAGGTCTCGGACAGCGAGTCGG
ATGAGGCCCTCGTGGCTGGCCCCGAGGGGAAGGGATCCGAGGGACTCGCAAGAAGCTGCGCCTGTACCAGTTCCT
GCTGGGGCTACTGACCGCGGGGACATGCGTGAGTGCGTGTGGTGGGTGGAGCCAGGCGCCGGCGTCTTCCAGTT
CTCCTCCAAGCACAAGGAACCTCTGGCGCGCCGCTGGGGCCAGCAGAAGGGGAACCGCAAGCGCATGACCTACCA
GAAGCTGGCGCGCGCCCTCCGAACTACGCCAAGACCGGCGAGATCCGCAAGGTCAAGCGCAAGCTCACCTACCA
GTCGACAGCGCGCTGCTGCCTGCAGTCCGCCGGGCTGAGCACACCCGAGGCTCCACCTGCGGAGCCGCTGGG
GGACCTCACGTCCCAGCCAGGATCCCCCTGGAAGAAAAAGGGCGTCCCCACACTCTAGGTGATAGGACTTACGCA
TCCCCACCTTTTGGGGTAAGGGGAGTGCTGCCCTGCCATAATCCCCAAGCCAGCCCGGGCCTGTCTGGGATTCC
CCACTTGTGCTGGGGTCCCTCTGGGATTTCTTTGTCATGTACAGACTCCCTGGGATCCTCATGTTTGGGTGAC
AGGACCTATGGACCACTATACTCGGGGAGGCAGGGTAGCAGTGCTTCCAGAGTCCCAAGAGCTTCTCTGGGATTT
TCTTGTGATATCTGATTCCCCAGTGAGGCCTGGGACCTTTTTAAGATCGCTGTGTGTCTGTAAACCCCTGAATCTC
ATCTGGGGTGGGGGCCCTGCTGGCAACCCTGAGCCCTGTCCAAGGTTCCCTCTTGTGAGATCTGAGATTTCTAG
TTATGTCTGGGGCCCTCTGGGAGCTGTTATCATCTCAGATCTCTTCGCCCATCTATGGCTGTGTTGTCACATCTG
TCCCCTCATTTTTGAGATECCCCAATTCTCTGGAATATTCTGCTGCCCTTTTTATGTGTCTGGAGTCCCCAA
TCACATCTAGGGCTCCTCC

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FIGURE 2363

MLALEAAQLDGPHFSCLYPDGVFYDLDSCCKHSSYPDSEGAPDSLWDWTVAPPVPATPYEAFDPAAAAF SHPQAAQ
LCYEPPTYSPAGNLELAPSLEAPGPGLPAYPTENFASQTLVPPAYAPYPSVLSSEEDLPLDSPALEVSDSESE
ALVAGPEGKGSEGLARSCACTSSCWGY

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FIGURE 2364

AGCTTTCTGGGGCAGGCCAGGCCTGACCTTGGCTTTGGGGCAGGGAGGGGGCTAAGGTGAGGCAGGTGGCGCCAG
CAGGTGCACACCCAATGCCCATGAGCCCAGACACTGGACGCTGAACCTCGCGGACAGTTAAGAACCCAGGGGCCCT
CTGCGCCTGGGCCCAGCTCTGTCCACACCGCGGTACATGGCACCACCTCTCTTGACGCTCCACCAAGGGCCC
ATCGGTCTTCCCCCTGGCACCTCCTCCAAGAGCACCTCTGGGGGCACAGCGGCCCTGGGCTGCCTGGTCAAGGA
CTACTTCCCCGAACCGGTGACGGTGTCTGTGGAACCTCAGGCGCCCTGACCAGCGGCGTGCACACCTTCCCGGTGT
CCTACAGTCTCAGGACTCTACTCCCTCAGCAGCGTGGTGACCGTGCCCTCCAGCAGCTTGGGCACCCAGACCTA
CATCTGCAACGTGAATCACAAGCCCAGCAACACCAAGGTGGACAAGAAAGTTGGTGAGAGGCCAGCACAGGGAGG
GAGGGTGTCTGCTGGAAGCAGGCTCAGCGCTCCTGCCTGGACGCATCCCGGTATGCAGCCCCAGTCCAGGGCAG
CAAGGCAGGCCCCGTCTGCCTCTTCAACCGGAGCCTCTGCCCGCCCCACTCATGCTCAGGGAGAGGGTCTTCTGG
CTTTTCCAGGCTCTGGGCAGGCACAGGCTAGGTGCCCCCTAACCCAGGCCCTGCACACAAAGGGGCAGGTGCTG
GGCTCAGACCTGCCAAGAGCCATATCCGGGAGGACCTGCCCCCTGACCTAAGCCCACCCCAAAGGCCAAACTCTC
CACTCCCTCAGCTCGGACACCTTCTCTCCTCCAGATTCCAGTAACTCCCAATCTTCTCTCTGCAGAGCCCAAAT
CTTGTGACAAACTCACACATGCCACCGTGCCAGGTAAAGCCAGCCCAGGCCTCGCCCTCCAGCTCAAGGCGGG
ACAGGTGCCCTAGAGTAGCCTGCATCCAGGGACAGGCCCCAGCCGGGTGCTGACACGTCCACCTCCATCTCTTCC
TCAGCACCTGAACTCCTGGGGGACCGTCAGTCTTCTCTTCCCCCAAAACCAAGGACACCCTCATGATCTCC
CGGACCCCTGAGGTACATGCGTGGTGGTGGACGTGAGCCACGAAGACCCTGAGGTCAAGTTCAACTGGTACGTG
GACGGCGTGGAGGTGCATAATGCCAAGACAAAGCCGCGGGAGGAGCAGTACAACAGCACGTACCGGTGGTCAGC
GTCCTCACCGTCTGCAACAGGACTGGCTGAATGGCAAGGAGTACAAGTGCAAGGTCTCCAACAAAGCCCTCCCA
GCCCCATCGAGAAAACCATCTCCAAGCCAAAGGTGGGACCCGTGGGGTGCGAGGGCCACATGGACAGAGGCCG
GCTCGGCCACCCCTCTGCCCTGAGAGTGACCGCTGTACCAACCTCTGTCTACAGGGCAGCCCCGAGAACCACAG
GTGTACACCCTGCCCCCATCCCGGGATGAGCTGACCAAGAACCAGGTGAGCCTGACCTGCCTGGTCAAAGGCTTC
TATCCAGCGACATCGCCGTGGAGTGGGAGAGCAATGGGCAGCCGGAGAACAATAACAAGACCACGCCTCCCGTG
CTGGACTCCGACGGCTCCTTCTTCTCTACAGCAAGCTACCGTGGACAAGAGCAGGTGGCAGCAGGGGAACGTC
TTCTCATGCTCCGTGATGCATGAGGCTCTGCACAACCACTACACGCAGAAGAGCCTCTCCCTGTCTCCGGGTAAA
TGAGTGGCAGCGCGGCAAGCCCCGCTCCCCGGGCTCTCGCGGTGCGACGAGGATGCTTGGCACGTACCCCTGT
ACATACTTCCCGGGCGCCAGCATGGAAATAAAGCACCCAGCGCTGCCCTGGGCCCTGCGAGACTGTGATGGTT
CTTTCCACGGGTGAGGCCGAGTCTGAGGCCTGAGTGGCATGAGGGAGGCAGAGCGGGTC

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FIGURE 2365

STKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSL
GTQTYICNVNHKPSNTKVDKKVEPKSCDKTHCTPPCPAPPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVDVSH
EDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQP
REPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPVLDSDGSFFLYSKLTVDKSRWQ
QGNVFSCSVMHEALHNHYTQKSLSLSPGK

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FIGURE 2366

GCCCGCGCCGCGCGCTCTTTCTCCGACAGCTGCCGGGGTGCCCTGCAAGCTGTTCCGCGCGTCTGCCCGTCT
GTCCCGCGGGTTCGTGCGCCGCCACAGCCGCGCCATGACCACCCAGCAGATAGACCTCCAGGGCCCGGGGCCGTG
GGGCTTCCGCCTCGTGGGCGCAAGGACTTCGAGCAGCCTCTCGCCATTTCCCGGGTCACTCCTGGAAGCAAGGC
GGCTCTAGCTAATTTATGTATTGGAGATGTAATCAGCCATTGATGGGAAAATACTAGCAATATGACACACTT
GGAAGCTCAGAACAGAATCAAAGGCTGCACAGACAACCTTGACTCTCACTGTAGCCAGATCTGAACATAAAGTCTG
GTCTCCTCTGGTGACGGAGGAAGGGAAGCGTCATCCATACAAGATGAATTTAGCCTCTGAACCCCAGGAGGTCTT
GCACATAGGAAGCGCCCAACAACCGAAGTGCCATGCCCTTTACCGCCTCGCCTGCCCTCCAGCACTACTGCCAGGGT
CATCACAACCCAGTACAACAACCCAGCTGGCCTCTACTCTTCTGAAAATATCTCCAACCTTCAACAATGCCCTGGA
GTCAAAGACTGCTGCCAGCGGGTGGAGGCGAACAGCAGACCCTTAGACCATGCTCAGCCTCCAAGCAGCCTTGT
CATCGACAAAGAATCTGAAGTTTACAAGATGCTTCAGGAGAAACAGGAGTTGAATGAGCCCCGAAACAGTCCAC
GTCTTTCTTGGTTTTCAGGAAATCCTGGAGTCTGAAGAAAAGGGGATCCCAACAAGCCCTCAGGATTCAGAAG
TGTTAAAGCTCCTGTCCTAAAGTGCTGCGTCGATTGGAAATGCTCAGAAGTTGCCTATGTGTGACAAATGTGG
CACTGGGATTGTTGGTGTGTTTGTGAAGCTGCGGGACCGTCACCGCCACCCTGAGTGTTATGTGTGCACTGACTG
TGGCACCAACCTGAAACAGAGGGCCATTTCTTTGTGGAGGATCAAATCTACTGTGAGAAGCATGCCCCGGGAGCG
AGTCACACCACCTGAGGGTTATGAAGTGCTACTGTGTTCCCCAAGTTCAGCCAGCAGATCTGACCACTGTTCTCC
AGCAGGCCCTCTGCTGCAGCTTTTTCTCTCAGTGTTCTGGCCCTCTCCTCTCTTGAAAGTTCTCTGCTTACTTTGG
TTTTCCCTCTGCTTGTAACATTGAGTCCCCTCCCTGCCTTGGTTAATTGACTCACACCAGCTGTGCGATGCCC
GCTTTTACAATTAAAGGAAAAGTGTGTTTGTTCAGTGTCACCTTGTGAGCAACACTGTGTCCCTTCGCCCCACCGT
TCCTCTCTGCTGCATTTGGACATCAGCCAAATTTGAACCAATCAAATATAACGTGTCTGACACTGATTTGTTT
TTACTCAATAAATGTATAGACTACAAAAAAAAAAAAA

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FIGURE 2367

MTTQQIDLQGPWPWFRLVGGKDFEQPLAISRVTPGSKAALANLCIGDVITAIDGENTSNMTHLEAQNRIKGCTD
NLTLTVARSEHKVWSPLVTEEGKRHPYKMNLASEPQEV LHIGSAHNRSAMPFTASPASSTTARVITNQYNNPAGL
YSSENISNFNNALESKTAASGVEANSRPLDHAQPPSSLVIDKESEVYKMLQEKQELNEPPKQSTSFVLVQEILES
EEKGDPNKP SGFRSVKAPVTKVAASIGNAQKLPMCDKCGTGIVGVFVKLRDRHRHPECYVCTDCGTNLKQKGHFF
VEDQIYCEKHARERVTPPEGYEVVTVFPK

[illegible]

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FIGURE 2369

MVEAIVEFDYQAQHDELTIISVGEIITNIRKEDGGWEGQINGRRGLFPDNFVREIKKEMKKDPLTNKAPEKPLH
EVPSGNSLLSSETILRTNKRGERRRRRRCQVAFSYLPQNDDELELKVGDIIEVVGEVEEGWEGVLNGKTGMFPSN
FIKELSGESDELGISQDEQLSKSSLRETTGSESDGGSSSTKSEGANGTVATAAIQPKKVKGVGFGDIFKDKPIK
LRPRSIEVENDFLPVEKTIGKKLPATTATPDSSKTEMDSRTKSKDYCKVIFPYEAQNDELTIKEGDIVTLINKD
CIDVGWEGELNGRRGVFPDNFVKLLPPDFEKEGNRPKKPPPPSAPVIKQAGTTERKHEIKKIPPERPEMLPNR
TEEKERPEREPKLDLQKPSVPAIPPKPRPPKTNLSRPGALPPRRPERPVGPLTHTRGDSPKIDLAGSSLSGIL
DKDLSDRSNDIDLEGFDSVVSSTEKLSHPTTSRPKATGRRPPSQSLTSSSLSSPDIFDSPSPEEDKEEHISLAHR
GVDASKKTSKTVTISQVSDNKASLPKPGTMAAGGGGPAPLSSAAPSPLSSSLGTAGHRANSPSLFGTEGKPKME
PAASSQAAVEELRTQVRELRSIIEITMKDQOKREIKQLSELDEEKKIRLRLQMEVNDIKKALQSK

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FIGURE 2370

CCCGCTTCTGGAGTGTTATCGTCACCAATGTCCCTAATGGTCTCGGCTGGCCGGGGCCTGGGGGCCGTGTGGTCCC
CAACCCACGTGCAGGTGACGGTGCTGCAGGCGCGGGCCTGCGGGCCAAGGGCCCCGGGGGCACGAGCGACGCGT
ACGCGGTGATCCAGGTGGGCAAGGAGAAGTACGCCACCTCCGTGTCGGAGCGCAGCCTGGGCGCGCCCGTGTGGC
GCGAGGAGGCCACCTTCGAGCTGCCATCGCTGTGTCTCCGGACCCGCGGCCGCCACCCTGCAGCTCACCG
TGCTGCACCGCGCGCTGCTCGGCCTCGACAAGTTCCTGGGCCGCGCCGAGGTGGACCTGCGGGATCTGCACCGCG
ACCAGGGCCGCAAGAGACGCAGTGGTATAAGTTGAAATCCAAACCAGGAAAGAAGGACAAGGAGCGAGGAGAAA
TTGAGGTTGACATCCAGTTTATGAGAAACAACATGACTGCCAGCATGTTTGACCTTTCTATGAAAGACAAGTCTC
GGAATCCATTTGGAAAGCTGAAGGACAAGATCAAGGGGAAGAATAAGGACAGTGGGTGAGACACCGCCTCCGCCA
TCATCCCTAGCACGACACCTTCGGTCGACAGTGATGATGAGTCTGTGGTTAAAGACAAGAAAAAGAAATCAAAGA
TCAAGACCTTACTTTCCAAGTCAAATTTGCAGAAGACGCCTCTTTCCAGTCCATGTCTGTCTGCGGACTTCAA
AGCCAGAAAAAGTGTCTTCCGTCGCCGAGACTTTTCACTCCAGTGGGATGAAGATGACAATGAGGATGAGTCTT
CCTCGGCCTCGGATGTCATGTCTCACAAGAGAACAGCGAGTACGGATCTTAAGCAACTGAACCAGGTCAACTTTA
CCCTTCCCAAGAAGGAAGGACTTTCTTTCTTGGTGGCCTTCGGTCTAAGAATGATGTCTTTCCGCTCTAATG
TCTGCATCAATGGGAACCATGTTTACCTGGAGCAGCCCCAACCCACCGGTGAGATCAAGGATAGCAGCCCGTCTT
CCTCCCCATCCCCAAGGGTTTCAGAAAGAAAACATTGTTCTTCTTACAGAGAACCTGGCGGCTGGGTCTTGGA
AGGAGCCTGTGAAGGAGGTGGGCTGTCTACTGACAGGGATGTCTCCGAATCTTCCACCAAGGACTCCTTGAAGT
CTATGACCTTGCCGACCTACCGACCTGCCCCACTGATCAGTGGGGACCTCAGGGAAAAATGGCCCCGCAACT
CAGAGGCCACAAAAGAAGCTAAGGAGAGCAAGAAGCCAGAGAGCAGGAGGTCTCTTTGCTGTCTCTGATGACGG
GGAAGAAGGATGTGGCTAAGGGCAGTGAAGGTGAAAACCTTCTCACGGTCCCAGGGAGGGAGAAGGAAGGCATGC
TGATGGGGTTAAGCCGGGGAGGACGCATCGGGGCTGCTGAAGACCTTGTGAGAAGATCTGAGAAAGATACTG
CAGCTGTTGTCTCCAGACAGGGCAGCTCCCTGAACCTCTTTGAAGATGTGCAGATCACAGAACCAGAAGCTGAGC
CAGAGTCCAAGTCTGAACCGAGACCTCCAATTTCTCTCCGAGGGCTCCCCAGACCAGAGCTGTCAAGCCCCGAC
TTATCTCTGTGAAGCCAATGAATGCCACGGCCACCAAGGTTGCTAACTGCAGCTTGGAAGTGGCACCATCATCA
GTGAGAAGTTGAACAATGAGGTGATGATGAAGAAATACAGCCCTCGGACCCTGCATTTGCATATGCGCAGCTGA
CCCACGATGAGCTGATTGAGCTGGTCTCAAACAGAAGGAAACGATAAGCAAGAAGGAGTTCCAGGTCCGCGAGC
TGGAAGACTACATTGACAACCTGCTTGTGAGGTCATGGAAGAAACCCCAATATCCTCCGCATCCCGACTCAGG
TTGGCAAAAAAGCAGGAAAGATGTAATCAGCAGAAAAAAACACCGAGACGTTTCTGTGACTTCACTTTACCT
GCTCCAGGGGTCAAGGACTTGCTTGCCTGATAACCAGCCAGCAGGCTCCGAATCACCATCTCCCTCACATGTTA
TCCGGCAAGAGT

2609/2682
FIGURE 2371

MSLMVSAGRGLGAVWSPTHVQVTVLQARGLRAKGPGGTSDAYAVIQVGKEYATSVSERSLGAPVWREEATFELP
SLLSSGPAAAATLQLTVLHRALLGLDKFLGRAEVDLRDLHRDQGRRTQWYKLKSKPGKKDKERGEIEVDIQFMR
NNMTASMFDL SMKDKSRNPF GKLDKIKGKNKDSGSDTASAIIPSTTPSVDSDES VVKDKKKKSKIKTLLSKSN
LQKTPLSQSMSVLPTSKPEKVLLRPGDFQSQWDEDDNEDESSSASDVMSHKRTASTDLKQLNQVNFTLPKKEGLS
FLGGLRSKNDVLSRSNVCINGNHVYLEQPQPTGEIKDSSPSSSPSPKGFRKKTLSSTENLAAGSWKEPAEGGGL
STDRDVSESSTKDSLKSMTLPTYRPAPLISGDLREKMAPANSEATKEAKESKKPESRRSSLLSLMTGKKDVAKGS
EGENLLTVPGREKEGMLMGVKPGEDASGPAEDLVRSEKDTAAVVS RQGSSLNLFEDVQITEPEAEPESEKSEPRP
PISSPRAPQTRAVKPRLHPVKPMNATAIKVANCSLGTATIISENLNNEVMMKKYSPSDPAFAYAQLTHDELIQLV
LKQKETISKKEFQVRELEDYIDNLLVRVMEETPNILRIPTQVGKKAGKM

2610/2682
FIGURE 2372

AGCTGGGGCGCGGCCCGCCTGTCTGCACAGACAGCACCATGTCGCTCATGGTCGTCAGCATGGTGTGTGTTGGGTT
CTTCTTGCTGCAGGGGGCCTGGCCACATGAGGGAGTCCACAGAAAACCTTCCCTCCTGGCCCACCCAGGTCCCCT
GGTGAATCAGAAGAGACAGTCATCCTGCAATGTTGGTCAGATGTCAGGTTTCAGCACTTCCTTCTGCACAGAGA
AGGGAAGTTTAAGGACACTTTCACCTCATTGGAGAGCACCATGATGGGGTCTCCAAGGCCAACTTCTCCATCGG
TCCCATGATGAAGACCTTGCAGGGACCTACAGATGCTACGGTTCTGTTACTCACTCCCCCTATCAGTTGTCAGC
TCCCAGTGACCCTCTGGACATCGTCATCACAGGTCTATATGAGAAAACCTTCTCTCTCAGCCCAGCCGGGCCCCAC
GGTCTGGCAGGAGAGAGCGTGACCTTGTCTGCAGCTCCCGGAGCTCCTATGACATGTACCATCTATCCAGGGA
GGGGGAGGCCCATGAACGTAGGTTCTCTGCAGGGCCCAAGGTCAACGGAACATTCCAGGCCGACTTCTCTCTGGG
CCCTGCCACCCACGAGGAACCTACAGATGCTTCGGCTCTTTCCGTGACTCTCCATACGAGTGGTCAAACCTCGAG
TGACCCACTGCTTGTCTGTCTCACAGGAAACCTTCAAATAGTTGGCCTTCACCCACTGAACCAAGCTCCGAAAC
CGGTAACCCACAGACACCTGCATGTTCTGATTGGGACCTCAGTGGTCATCATCCTCTTCATCCTCTCTCTCTTCTT
TCTCCTTCATCGCTGGTGCTGCAACAAAAAATGCTGTTGTAATGGACCAAGAGCCTGCAGGGAACAGAACAGT
GAACAGGGGAGGACTCTGATGAACAAGACCCCTCAGGAGGTGACATATGCACAGTTGAATCACTGCGTTTTCACACA
GAGAAAAATCACTCGCCCTTCTCAGAGGCCCAAGACCCCCAACAGATATCATCGTGACACGGAACCTTCCAAA
TGCTGAGCCCTTGATCCAAAAGTTGTCTCCTGCCCATGAGCACCACAGTCAGGCCTTGAGGGGATCTTCTAGGGAGA
CAACAGCCCTGTCTCAAACCTGGGTTGCCAGCTCCAATGTACCAGCAGCTGGAATCTGAAGGCGTGAGTCTGCAT
CTTAGGGCATCGCTCTTCTCTCACACCACAAATCTGAACGTGCCTCTCCCTTGCTTACAAATGTCTAAGGTCCCCA
CTGCCTGCTGGAGAGAAAAACACACTCCTTTGCTTAGCCCACAATTCTCCATTTCACTTGACCCCTGCCACCTCT
CCAACCTAACTGGCTTACTTCTTAGTCTACTTGAGGCTGCAATCACACTGAGGAACCTACAATTCCAAACATACA
AGAGGCTCCCTCTTAACACGGCACTTAGACACGTGCTGTTCCACCTTCCCTCATGCTGTTCCACCTCCCCCTCAGA
CTAGCTTTCAGCCTTCTGTCAGCAGTAAACCTATATATTTTTTAAATAATTTCAATGTAGTTTTCCCTCCTTC
AAATAACATGTCTGCCCTCA

2611/2682
FIGURE 2373

MSLMVSMVCVGFLLQGAWPHEGVHRKPSLLAHPGPIVKSEETVILQCWSDVRFQHFLHREGKFKDTLHLIGE
HHDGVSKANFSIGPMMQDLAGTYRCYGSVTHSPYQLSAPSDPLDIVITGLYEKPSLSAQPGPTVLAGESVTLSCS
SRSSYDMYHLSREGEAHERRFSAGPKVNGTFQADFPLGPATHGGTYRCFGSFRDSPYEWSNSSDPLLVSVTGNPS
NSWSPTEPSSETGNPRHLHVLIGTSVVIILFILLFFLLHRWCCNKKNAVVMQEPAGNRTVNRDSDEQDPQE
VTYAQLNHCVFTQRKITRPSQRPKTPPTDIIVYTELPNAEP

2612/2682
FIGURE 2374

GGTGACCAAGAGTACATCTCTTTTCAAATAGCTGGATTAGGTCCTCATGCTGCTGTGGTCATTGCTGGTCATCTT
TGATGCAGTCACTGAACAGGCAGATTTCGCTGACCCTTGTGGCGCCCTCTTCTGTCTTCGAAGGAGACAGCATCGT
TCTGAAATGCCAGGGAGAACAGAACTGGAAAATTGAGAAGATGGCTTACCATAAGGATAACAAAGAGTTATCTGT
TTTCAAAAAATTCTCAGATTTCCTTATCCAAAGTGAGTTTTAAGTGACAGTGGTAACATTTTCTGTAGTACCAA
AGGACAACCTCTTCTCTGGGATAAAACCTCAAATATAGTAAAGATAAAAGTCCAAGAGCTCTTCAACGTCCTGT
GCTGACTGCCAGCTCCTTCCAGCCCATCGAAGGGGGTCCAGTGAGCCTGAAATGTGAGACCCGGCTCTCTCCACA
GAGGTTGGATGTTCAACTCCAGTTCTGCTTCTTCAGAGAAAACCAGGTCCTGGGGTCAGGCTGGAGCAGCTCTCC
GGAGCTCCAGATTTCTGCCGTGTGGAGTGAAGACACAGGGTCTTACTGGTGCAAGGCAGAAACGGTGACTCACAG
GATCAGAAAACAGAGCCTCCAATCCCAGATTACGTCAGAGAATCCCCATCTCTAATGTAAGCTTGGAGATCCG
GGCCCCGGGGGACAGGTGACTGAAGGACAAAACTGATCCTGCTCTGCTCAGTGGCTGGGGGTACAGGAAATGT
CACATTCTCCTGGTACAGAGAGGCCACAGGAACAGTATGGGAAAGAAAACCCAGCGTTCCTGTACAGCAGAGCT
GGAGATCCCAGCTGTGAAAGAGAGTGATGCCGGCAAATATTACTGTAGAGCTGACAACGGCCATGTGCCTATCCA
GAGCAAGGTGGTGAATATCCCTGTGAGAATTCCAGTGTCTCGCCCTGTCTCACCCTCAGGTCTCTGGGGCCCCA
GGCTGCAGTGGGGGACCTGCTGGAGCTTCACTGTGAGGCCCTGAGAGGCTCTCCCCCAATCTTGTACCAATTTTA
TCATGAGGATGTACCCCTTGGGAACAGCTCGGGCCCCCTGAGGAGGGGGCTCTTCAACCTCTCTTTGACTGC
AGAACATTCTGGAACTACTCCTGTGAGGCCAACACGGCCTGGGGGGCCAGTGCAGTGAGGCAGTGCCAGTCTC
CATCTCAGGACCTGATGGCTATAGAAGAGACCTCATGACAGCTGGAGTTCTCTGGGGACTGTTTGGTGTCTTGG
TTTCACTGGTGTGCTTGTGTGTATGCCTTGTCCACAAGATATCAGGAGAAAGTTCTGCCACTAATGAACC
CAGAGGGGCTTCCAGGCCAAATCTCAAGAGTTACCTATTCAAGCCCAACCCAGACATGGAGGAGCTGCAGCC
AGTGTATGTCAATGTGGGCTCTGTAGATGTGGATGTGGTTTATTCTCAGGTCTGGAGCATGCAGCAGCCAGAAAG
CTCAGCAAACATCAGGACACTTCTGGAGAACAAGGACTCCCAAGTCATCTACTCTTCTGTGAAGAAATCATAACA
CTTGGAGGAATCAGAAGGGAAGATCAACAGCAAGGATGGGGCATCATTAAAGACTTGCTATAAAACCTTATGAAAA
TGCTTGAGGCTTATCACCTGCCACAGCCAGAACGTGCCTCAGGAGGCACCTCCTGTCATTTTTGTCTCTGATGATG
TTTCTTCTCCAATATCTTCTTTTACCTATCAATATTCATTGAAGTGTGCTACATCCAGACACTGTGCAAAATAAA
TTATTTCTGCTACCTTCTCTTAAGCAATCAGTGTGTAAAGATTTGAGGGAAGAATGAATAAGAGATACAAGGTCT
CACCTTCATCTACTGTGAAGTGATGAGAACAGGACTTGATAGTGGTGTATTAACCTATTATGTGCTGCTGGATA
CAGTTTGCTAATATTTTGTGAGAATTTTGCAAATATGTTCAATTGGGAATATTGGCCTGAAATTTTCTTTTCCA
CTGTGCTCTGCCAGAAATGTTGTATCAGGCTGATGCTGGCTTCATAGAATGAGTTAGGCAGGAGCCCTTCTCC
TTGATTTTTTGGCATAGTTTCAGCAGGATTGGTACCAGTTATTCTTTCTGCATCTTGTAGAATTCAGCTATGAAT
CCATCTGGTCTAGGGCTTTTGTGTTGGTTGGTAAGTTTTTATTACTAATTCAACTTCAGCGCTTGATATTGGTC
TAGGAGGGGTTTCTGTCTCTTCTGTTCAATCTTGGGAGATTGTGTGTTTCCAGGAATTTAGCCGTTTCTCTCCA
GATTTTCTTCTTTATGTGCATCGACTTGAGTGTAACATAACTTATATGCACTGGGAAACCAAAAAATCTGTGTG
ACTTGCTTTATTGCAGCATTGTTTTTATTTGGTAGTCTGGAAGTGAACCTGCAATATCACCAGATGATGCATAT
AGTTGCAAAAATGTGATTTTGCATAGTAAATATGAGTATTGCAATAAACTATGATATTACTTTTGTAAAGTAT
ATAGAATAAAATGTAAATAATCT

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FIGURE 2375

MWEWKICNSHGARPFAEPAGWEFVNLLRHHKSFLIAPLCLSVPSRPVLTIRSPGAQAAVGDLELHCEALRGSP
PILYQFYHEDVTLGNSSAPSGGGASFNLSTAEHSGNYSCEANGLGAQCSEAVPVSISGGWVLPGYRV

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FIGURE 2376A

ACTTGGCAAATCCGAAGATTTTCCGGGATCTTTCAAAGCCCATGGGGGCTCAGACCAAGGAAAGGAAGCTGAAAT
TTATCCAGAGGTTTAAAGAAGTTGAGAAAAGTGAAGGAGACATGACTGTCCAGTGCCACTACTACACCCACTACT
CCTCGGCCATCATCGTGGCCTCCTACCTGGTCCGGATGCCACCCTTCACCCAGGCCCTCTGCGCTTTCAGGGCG
GAAGCTTCGACGTGGCAGACAGAATGTTCCACAGTGTGAAGAGCACGTGGGAGTCGGCCTCCAGAGAGAATGA
GTGACGTGACGGAGCTGACCCAGAGTTCTTCTACCTGCCTGAGTTCTTAACCACTGCAACGGGGTAGAGTTG
GCTGCATGCAGGACGGGACTGTGCTAGGAGACGTGCAGCTCCCTCCCTGGGCTGATGGGGACCCTCGGAAATTCA
TCAGCCTGCACAGAAAGGCCCTGGAAAGTGACTTTGTGAGTGCCAACTCCACCATGGATAGACCTTATTTTG
GGTACAGCAGCAGGGGCCAGCCGAGTGGATGCTGTTAATATCTTCCACCCCTACTTCTACGGTGACAGAATGG
ACCTCAGCAGCATCACTGACCCCTCATCAAAGCACCATCCTGGGGTTTGTGAGCAACTTTGGACAGGTGCCCA
AACAGCTCTTTACCAAACCTCACCCAGCCAGGACTGCAGCAGGGAAGCCTCTGCCTGGAAAGGATGTCTCCACCC
CCGTGAGCCTGCCTGGCCACCCACAGCCCTTTTTCTACAGCCTGCAGTCGCTGAGGCCCTCCAGGTACAGGTCA
AAGGTGATTCCCTGGCCATGCATTGTTTGGTGTCTGTCCAGGGTTGTCCCTTCAGTGGCTGGGTTCTCTGGA
GGTCCAGCACACATACCTGGGCAAAGTATTGGGACTGACTTTGAATGGCTGCATCTCCAGTCACAGCCAGATT
CTAGGGGGGTGTCTCTCTGGAAGTGTCTAGGAGCTCCTCTGTTAGACCCTAACTTCTGAAGACCCACGTCTCT
CTGTCTTTCTGTCTGTCTCTCTCACACACATACACACAGACACCTCTTTCAGGCACACACACATCTCTCTT
CCTCTTCTCTCTTTTTATACATGCACACACATGTACAACACATACCTTCTCTCTCAAGAGACCAGTGGAGA
GTCCCAAGTTTACAAGGAAGGATTACAGCCTCTGTGCTTTGGCCACTGGTCTCTAAGCAGGGCAGGGGACTA
AGCTAAGCACTCTAAGCAGGCAGCCAGTAGCTAAGAACATGTGCTCTGGGGCAGATGGCCCAGGAGTGCATTCCA
GTCCTACTGCTTCTGACTGTGTGACCTTGGGCAAGCCATTGAACCTCCTTGTTCACGGGGATTGGAATAGCA
TTGAATGGATGCTACTACAGATTGTATTGATGCTTAGATAAATGAGCCTGCAGAGAGTTGGTGAGGAAAAGATG
AAAAACATGAGAAATAGGTTGAGCCAGTGAAGGGAGCCATGTGATTTAGGGAGGGAAGAGGGTCACTCTGGCCCT
ATTATTGAGAAACAGTTCTTCCAGGGACCAGGGGCTCCTCAACAAGGCCAGTCAGCAAGAGCGCAATGAGATGGG
CCACCTTCGGTGCCAGCACATAGTGGTGATTATTAGTCCATCTCTTCTGACCATAAATTCAGTGGCTTCTTGGC
TGCCACCAAGGCTCAGAGAGGCTCTATAGAAGCAGGAGTCCACTGGGGTGGGGGTGGTTCCACTGGGGTGGGGGT
GGTCCCAACCAGCCAGGAGGGAGGATCTCCAGATGGAAGCAGAAGAGAGGGTGAGGCTGGGTTCTAGGGCCA
TGTATGTATGAAGTCGGGTGCCAGTGTCTGAGGACATGCAGTGCCTTGGGGAAATCCCACTACACTGAACAA
CATGCAGGTCCCAAGGAGTATGAAGTTAAGTTTTCAATGGTTTTAGTGGTGTCTTTTTATCCTTGAAGTCCAA
GAACAGTGTCAATTGGCACACCCACCCCTGGTAGATAAGGTGCTACTGCTCTTGGCTCTGGGGACCATGCCTCCAT
TTGCCCCAGGACTGGGGATCCGCTGCTGCATTGAAGTCCCTGGGCAGTCAGGCACAGCCCTGCCCTCATGGAAA
GGGACATGAGGTGCAAACACATCAACAGTAACAAGGGAGCTCAAATCTCCCATGTGGGCTCCAGGAGACTGATG
CAGATCTTACCAGCCAGGGTCTTGGGATCCTTCTGAGGCTCAGTTTCTTCATGTGTAAGGTATGGAAGACAA
TGGCCCTGCCCTCAGGCTTGTGACAGTGCCATGAAGTGGTGTCTGTACACAGGCAGGCAACAAGCCAGCGCTGA
GGCAGGAGTCTTGGCAGATGCTGGTGGCACTCCGAGCACACACTGGGCCTTGCTTTAAGGGGCTGGCTTTAC
TCTCTCCCTTTGATCTGAGCAGCCCAAGGTAAGGGCCATTGATGCCACAGTCCCTTCCCTATGGGGAGAGAC
ATCTCACAGTCTTATCTGGAGCCTTTCCTGAATCCTGCTCCCTCTCTTCTCTGGGTGGTAGGGTCAGGAAGA
GGGTGGTTCTCCCACTTCACCCAGCACAGGGCAAGGAAGGGAGTGGCCCCCACCAGGAGGAAGGAAGGCCCTTA
CGTGGTGGGTATGGTGTGCACAGTCTTAGAAACTAGGCTGGCCTCAGTGTTTTGAAGTCAACAAGCTGCACCAGGC
TCTGTGCCAGGGGACACACATTGAAAGGGGCATGGTTTTCTCTACTCCATGGGAAGAGGCTAGGGTCTGAAGAGA
TGGAATGACTTCACCAGCATAACCAGACTTGGAATGAGGTCTGGGCAGCTCCAAATCCCGTGTGTGAGCCATAT
TCCAGCTGGGGCTGGGGGTGGCTCCAGAGTGGAGCTGAGGGAGGATGGGAATTGTCCTCCCTGTGACTCCTGC
CCCGGGGCCCCGCTACAGTGGGTGCTGTCTTCTGTGCATAAGTTCAAGTCCAGTGTGTCTGCCTGTCACTCCTG
CCCAGGGCCCAGCTGCAGTGGGTGCTGTCTTCCATGCTTAAGTTCAAGTCCAGTGTGTCTGCCTGTGACTCCTG
CCTGGGGGCCAGCTGTAGTGGGTGCTGTTCTTCCATGCATAAGTTCGCCATACTAAGTGGGGTGTAGATATGTA
CCTCTTTTCTTAGGCTCAGAGTCCCCAAAGGGGCCATTGGCCACATTGTCTCTACTGAGAAGACCATTCTGGC
TGTAAGAGAGGAACAAAGTGTGTGTGCTCTCTGGAACAGGACCTTCAGCTGGGGCTTGTGACTTCAGCTG
CTGCTTGGGGAGCTACGGCTCCGACAAGGTCTGATGACATTGAGAACCTGGCTGCCTGGGGCCGCTGTCTGTG
CGCCGTGTGCCCATCCCCAACACGATTGTACCTCTGGGACCAGCACTGTGGTGTGTGTGTGGGAGCTCAGCAT
GACCAAGGCCGCCCGAGGGGCTTGCCTCCGGCAGGCCTTGATGGACACACAGGCTGTACGTGCTTGGC

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FIGURE 2376B

AGCGTCAGTCACCTTCAGCCTCCTGGTGAGCGGCTCCCAGGACTGCACCTGTATCCTGTGGGATCTGGACCACCT
CACCCACGTGACCCGCCTGCCCGCCCATCGGGAAGGCATCTCAGCCATCACCATCAGTGACGTCTCAGGCACCAT
TGTCTCCTGTGCGGGAGCACACTTGTCCCTGTGGAATGTCAATGGACAGCCCCCTGGCCAGCATACCACAGCCTG
GGGCCCAGAAGGAGCCATAACCTGCTGCTGCCTGATGGAGGGCCAGCATGGGACACAAGCCAGATCATCATCAC
CGGGAGTCAAGACGGCATGGTCCGGGTTTGGAAAGACTGAGGATGTGAAGATGTCTGTTCTGGACGGCCAGCAGG
AGAGGAGCCCCGGCTCAGCCTCCAAGCCCAAGAGGCCACAAGTGGGAGAAGAACCTGGCCTTGAGTCGAGAGCT
GGACGTTAGCATTGCTTTGACAGGGAAGCCCAGCAAAACCAGCCCCGCAGTGACTGCTCTGGCCGTGTCCAGAAA
CCACACCAAACTCCTGGTTGGTGATGAGAGGGGGAGAATATTCTGCTGGTCTGCAGATGGGTAGGAAGAGAGAGG
CAGCAGAGGCTCTGGCACAACAGTGCCAGGCTGAGGGTGGCAGAGGTGACTGGGGCCTGAGCTCTGCCTACAGAA
GAAACCCCCAGGGCTCCTTCCCCACAGTTCTCAAGGAAGGGCCTCTGGCAATCACAGCTCTGCAGCCCAACCTT
CTCCATGGCCGATGGGACTTCTATGAAAAGGATGAGCACACACACTCGGAGGGCTGAGCAGCACGCTGAAAAGT
TGACTTGGTGATGCCAGCTGCACACGAAATTACACATGACTCACCTTATTAAAGGGCTATTGCACTGAAAAAAA
AAAAGATGGGTCGCTTACTGGAAATTATTGTATTGCTTTATTTTATTAAAGCAACTATGTTTTAAATGC

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FIGURE 2377

CTGTGACAGACGGCACTCACACTGATTTCTATGTCCTACCAGACACTGCCCTGGCGACACACAAACCTCAAGTAA
TGAGGGTCCAGATAAGATCATTAGACAATAGGCTTCCCCAGATTACTACCAACAGGGGTGCCCCAGCCTTGAAGC
GCCTTCACACTGGACACATGGGCTTCCTGATTACCAGCAAGTCTCTGAAGGCAGAAGATCAGGACAGTCCCCACA
GGCTTCTGAAGTATAAAGTGACCAGAGGACCAGAGCATGGCTTCATTATCAAACTGGCCTTGGAAACCAGAGCA
CTCGAGTGTTTACACAAGCTGACATTGATGAGATGAAGATATCCTATGTCTTGAATGAGGGCAGCAACGCATCAA
AGGACATCTTCTATTTCTCTGTGAAGACAATGGAGGAAATAAACTAACAATCAGCCTTTCCATCTAACTGGG
CTTGGATTTGTTGGAGAAAGAGTACTACATTGTGGATGAAGATTCCACATTCTTAGAAGTGACCCTTACACGCA
GAGGATACCTTGGAGAAACATCATTTATCAGCATTGGTACCAAAGATGAACTGCAAAAAAAGACAAAGATTTC
AATGGAAGACCAATAAACAGATCCAGTTCAAT

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FIGURE 2378

VTDGHTDIFYVLPDTALATHKPQVMRVQIRSLDNRLPQITTNRGAPALKRLHTGHMGFLITSKSLKAEDQDSPHR
LLKYKVTRGPEHGFIKLTGLGNQSTRVFTQADIDEMKISYVLNEGSNASKDIFYFSVEDNGGNKLTNQPFHLNWA
WICLEKEYYIVDEDSTFLEVTLTRRGYLGETSFISIGTKDEAKKDKDFKWKTNKQIQF

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FIGURE 2379

GTGCCAACC~~AA~~ACCCTGAACAGAGGAGGTGGCGGTGGTGGCCCTCGCCTGTGGCCCCGTGCTGCTTGCACTCGA
ACTCGTCGCC~~ATG~~GAGGAGCTCCAGGAGCCTCTGAGAGGACAGCTCCGGCTCTGCTTCACGCAAGCTGCCCGGAC
TAGCCTCTTACTGCTCAGGCTCAACGACGCTGCCCTGCGGGCGCTGCAAGAGTGTGAGCGGCAACAGGTACGGCC
GGTGATTGCTTTCCAAGGCCACCGAGGGTATCTGAGACTCCCAGGCCCTGGTTGGTCCTGCCCTCTTCTCCTTCAT
AGTGTCCCAGTGTGTGTCAGGAGGGCGCTGGTGGTAGCTTGGACCTTGTGTGCCAACGCTTCTCAGGTCTGGGCC
TAACAGCCTCCACTGCCTGGGCTCACTCAGGGAGCGCCTCATTATTTGGGCAGCCATGGATTCTATCCCAGCCCC
ATCATCAGTTCAGGGACACAACCTGACTGAAGATGCCAGACATCCTGAGAGTTGGCAGAACACAGGAGGCTATTCT
TGAAGGAGATGCAGTATCACAGCCACAGATGGCACTAGAGGAGGTGTGAGTGTGAGATCCACTGGCAAGCAACCA
AGGACAGTCACTCCCAGGATCCTCAAGGGAGCACATGGCACAGTGGGAAGTGAGAAGCCAGACCCATGTTCCAAA
CAGAGAACCTGTTTCAGGCACCTGCTTCTCTGCCAGCCGAAACGTCTGGACAAGAAACGTTTCAGTGCCTGTAGC
CACTGTAGAACTGGAAGAAAAGAGGTTTCAAGACTCTGCCTTTAGTGCCAAGCCCCCTACAAGGCCTGACCAATCA
GGATTTTACAAGAGGGAGAAGATTGGGAGCAAGAAGATGAGGACATGGACCCAGATTAGAACACAGTTCCTCAGT
TCAAGAAGATTCTGAATCCCCAAGTCTGAAGATATAACAGACTACCTCCTGCAATACAGGGCCATCCACAGTGC
AGAACAGCAACATGCCTATGAGCAGGACTTTGAGACAGATTATGCTGAATACCGCATCCTGCATGCCCGTGTGG
GACTGCAAGCCAAAGGTTTCATAGAGCTGGGAGCAGAGATTAAAAGAGTTCGGCGAGGAACCTCAGAATACAAGGT
CCTGGAAGACAAGATAATCCAGGAATATAAAAAGTTCAGGAAGCAGTACCCAAGTTACAGAGAAGAAAAGCGTGC
CTGTGAGTACCTTCACCAGAAATTGTCCACATTAAAGGTCTCATCCTGGAGTTTGAGGAAAAGAACAGGGGCAG
CTGAAGTTATCAAGGGAATTTTGTAGCCTCTGCTTAGTGAAACACAAAGGAACAAAGCAGCTATAAACTAAATAG
AATGCAACTATCTGCTTTTCTTATGCTGACCACTGGAGTCCATGGTGGCAAGTAGAGAGCTGCTCTAGGTTCTTG
AGGTTTGGTTTTTATTATTAATTTTTAGGGTATGGGCACGTGTGCAAGACTCCATAGCTGTGCCTAGGAGTCTAG
GAAAAGTGACAGAGGCTTGGCTTTTTTACCTTTAGTTCAGCCAAGTCAATTTCAAGTCTGAGAAATGACATCAT
CTTCAGGATAAAATAATGAGGACATTAGACAAACCAACTAAGTGAATTTAGCCTGGTAGCCTCTCTAAGGAAA
CAGTAATAATAACTTCTGATAAGAGTTAAAAGAACTTGTAGCATACCTGGATATAATGGGAAAGGGCCTGGGTGT
TACCCATGTACTGAAAATGAACCTTTTACCAACATGGCTAAAAAATTAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2380

MEELQEPLRGQLRLCFTQAARTSLLLLRLNDAALRALQECQRQQVRPVIAFQGHrgYLRLPGPGWSClFSFIVSQ
CCQEGAGGSLDLVCQRFLRSGPNSLHCLGSLRERLI IWAAMDSIPAPSSVQGHNLTEDARHPESWQNTGGYSEG
AVSQPQMALEEVSVSDPLASNQGQSLPGSSREHMAQWEVRSQTHVPNREPVALPSSASRKRLDKKRSVPVATVE
LEEKRFRTLPLVPSPLQGLTNQDLQEGEDWEQEDMDPRLEHSSSVQEDSESPSPEDIPDYLLQYRAIHSAEQQ
HAYEQDFETDYAEYRILHARVGTASQRFIELGAEIKRVRRGTPEYKVLEDKIIQEYKKFRKQYPSYREEKRRCEY
LHQKLSHIKGLILEFEEKNRGS

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FIGURE 2381

ATGGAAGCCCCAGCTCAGCTTCTCTTCCTCCTGCTACTCTGGCTCCCAGATACCACCGGAGAAATTGTGTTGACA
CAGTCTCCAGCCACCCTGTCTTTGTCTCCAGGGGAAAGAGCCACCCTCTCCTGCAGGGCCAGTCAGAGTGTGGC
AGCTACTTAGCCTGGTACCAACAGAAACCTGGCCAGGCTCCCAGGCCCCCTCATCTATGATGCATCCAACAGGGCC
ACTGGCATCCCAGCCAGGTTTCAGTGGCAGTGGGTCTGGGACAGACTTCACTCTCACCATCAGCAGCCTAGAGCCT
GAAGATTTTGCAGTTTATTACTGTCAACACCGTGACAATTGGCCTCCGGGGGCCACTTTCCGGCGGAGGGACCAAG
GTGGAGATCAAACATAACCACCGGAGAAATTGTGTTGACACAGTCTCCAGCCACCCTGTCTTTGTCTCCAGGGGAA
AGAGCCACCCTCTCCTGCAGGGCCAGTCAGAGTGTGGCAGTACTTAGCCTGGTACCAACAGAAACCTGGCCAG
GCTCCCAGGCCCCCTCATCTATGATGCATCCAACAGGGCCACTGGCATCCCAGCCAGGTTTCAGTGGCAGTGGGTCT
GGGACAGACTTCACTCTCACCATCAGCAGCCTAGAGCCTGAAGATTTTGCAGTTTATTACTGTCAACACCGTGAC
AATTGGCCTCCGGGGGCCACTTTCCGGCGGAGGGACCAAGGTGGAGATCAAACGAACTGTGGCTGCACCATCTGTC
TTCATCTTCCCGCCATCTGATGAGCAGTTGAAATCTGGAAGTGCCTCTGTTGTGTGCCTGCTGAATAACTTCTAT
CCCAGAGAGGCCAAAGTACAGTGGAAAGGTGGATAACGCCCTCCAATCGGGTAACTCCCAGGAGAGTGTACAGAG
CAGGACAGCAAGGACAGCACCTACAGCCTCAGCAGCACCCTGACGCTGAGCAAAGCAGACTACGAGAAACACAAA
GTCTACGCCTGCGAAGTCACCCATCAGGGCCTGAGCTCGCCCGTCACAAAGAGCTTCAACAGGGGAGAGTGTAG
AGGGAGAAGTGCCCCCACCTGCTCCTCAGTTCAGCCTGACCCCTCCCATCCTTTGGCCTCTGACCCCTTTTCC
ACAGGGGACCTACCCCTATTGCGGTCTCCAGCTCATCTTTACCTCACCCCTCCTCCTCTGCTTTAATT
ATGCTAATGTTGGAGGAGAATGAATAAATAAGTGAATCTTTGC

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FIGURE 2382

AAATAAAGATGGTTCCTTAACITTTAAATTAAGATTTTAAATTAAGATGAATCTTGATTTTTAAATTAGTATGGT
TTAAGATAGTTTACAGATAGATTAGATAATCTATCTAGAGATAGACAGGGAGAGATATCTATCAATACATATC
TCTATCTAGATATAGATAGATGGTTTTCTATATAGNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNTTATATCTACATCTGTATTCTACATGTATATAGGTATGTATATATCTA
CATGTATATATGTNNNNNNNNNNNNNNNNNNNNNNNNNNNNATCTGTATATATGCATATACATGCCTATCTATCTTTAT
CTACATGTATTACATAGATAGGGTAATTACTGATAAATCCTTTGGTCTTCTTTGTAAATCTCTGGGCTAAAGACC
CCTCCAGTATTATACGTGTTCTGGTCTAGATTGCTCACTACCGGTTCTCCTCACTATCTAGAGAAGATCCACTT
AGCAGGCCCTCCCCTTAAAGAAGGGCACCTTAACTGGACTCACTCCTCCCATAGTAGACTGCACAGTACACAAGCA
GAAGAGGAGAGCTCAATAATAAAGTCACCATAAAGGATAATTTTTAAATGAATAAAGACATCAGAAAAATCCAGTA
TTGGCTAGCACATATGGCTATCAGCAAGCTCACCTACAAAAAATAGTGAGAAAACAGTTCGAATATTGGCCGT
TTGGGGCACATATTCTACAAAAGGAAAAGTTTTGAAATGTATATATTTAATTTAACTCTTTAAAAATATTGT
A

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FIGURE 2383

MVFYXXXXXXXXXXXXXXXXXXXXXXXXXISTSVFLHVYRYVYIYMYICXXXXXXXXXICIIYAYTCLSIFIYMYID
RVITDKSFGLLCKSLG

2623/2682
FIGURE 2384

TTTTACATTATGAATAACTTTTATTTGTTTATACAAGTTTGAATTCATCTATTTTTATGTAAATAGCTCGAT
CTTCAAAAATATCCTTCAGCTCTGACAACCTCTTCACATAACTTTCCTGTAAGATCTTTTAAATATCCAAACCTG
TAAAAGTCCACATTTCAGTTGTTCTTTGTTTCCTTAGTTTGCTTCAACAACATCAATGCAAGGTTAATAGAAGCTAT
TTACTTACCATATGGTAGGTGGCTCAGAACCTTCTATTTCTAAGTAATCATATTTCTCTCCATTGAAAATCAG
TAAATATGAGTGAAATTGTGTCCCAGGCTCTGCTACAATGGTCCAAGTGCAATCAGCATTGTTATGGTACTCAT
TAGGAAAAC TAGGGCTGGATATGATGCCACTGGATCCTCTCATTGTTCCCTCCACAAGCATCTTCAGCTCTACAGA
TAGGAACAGGAAAATCCCACGAAGCTGTATTAAGTGAATTGGCCATGCAGGTGAGCTGAGGGTGGCCATCAAGGA
TGTATCCAGTTACACAGCTGTAGCGGATCTTGTC

AATGAATCCCTGCGGTTGGCTGGGGGCGAGTGGGTCCCACACTGCCTAACTTCCCTAAATGGGCAGCTTCACTTTT
AGAACCCCGGGTTCCTTCCCTGGCAGGCCCAGGTGGCACATCTCTGTGCGGGTGGGCCCTCACCTTGGATCTCCAG
GCCTGACACTGCCCAGCTGGATGGAACCATGGCCCCAGCCTTCTCTGCTGCTGCTGCTGCTGCTGCGCCACAGGGTTG
CGTCTCAGGCCCCCTCTGCTGACAGTGTATACACAAAAGTGAGGCTCCTTGAAGGGGAGACTCTGTCTGTGCAGTG
CTCCTATAAGGGCTACAAAAACCGTGTGGAGGGCAAGGTTTGGTGCAAAATCAAGAAGAAGAAGTGTGAGCCTGG
CTTTGCCCGAGTCTGGGTGAAAGGCCCCGCTACTTGTCTGCAGGACGATGCCCAGGCCAAGGTGGTCAACATCAC
CATGGTGGCCCTCAAGCTCCAGGACTCAGGCCGATACTGGTGCAATGCGCAACACCTCTGGGATCCTGTACCCCTT
GATGGGCTTCCAGCTGGATGTGTCTCCAGCTCCCCAACTGAGAGGAACATTCTTTTACACATCTGGACAACAT
CCTCAAGGGTGGAACTGTACAACTGGCCAAGCCCCCTACCTCAGGCCTGATGCCCTTTTACCACCTGGTGTGAT
GGTGTTCACCCAGGACTCATCACCTTGCCCTAGGCTCTTAGCCTCCACCAGACCTGCCTCCAAGACAGGCTACAG
CTTACTGTCTACCAGACACCACCAGCCAGGGACCCAGGAGGACCATGGGGTCCCAGACAGTGACCGCTCTCCAG
CATAGCCAGGGACTCCTCTGCTGGCCCGAATCCATCTCCACTAAGTCTGGGGACCTCAGCACCAGATCGCCAC
CACAGGGCTCTGCCTCACCAGCAGATCTCTCTCAACAGACTACCTCCATGCCCTCCATCAGGCACCAGGATGT
TTACTCCACTGTGCTTGGGGTGGTGTGACCCCTCTGGTGCTGATGCTGATCATGGTCTATGGGTTTTGGAAGAA
GAGACACATGGCAAGCTACAGCATGTGCAGCGATCCTTTACACGTGACCCACCTGGAAGACCAGAGCCCTATGT
GGAAAGTCTACTTGATCTGAGGGCCACTTAAGCATGGGGTGGGGAGCTTCTCCAGAGTGGCCCCAGGGGGTTAGAG
GAGGGGTGAAGATTGGGGCCAGTATCGATCTTATGAAGCTGGAGGACTTGTGCAGTGTGGACTCACCCAGGACT
TCCCAAACCCAGAGGCTGCCATCCTAAGCAGCCCCACAGCCAGTGTCTCTTGGGGGCAGGAACCTGGGGAGG
GGCCCAGAGCAAAGGGCATCAGGGAGAAAGTCCCAGGAAATGTGACCAGTGGCTTCTGCTCGGAGCTGCAGACC
CCAGGGCTCTTGGTGGAGGCAGGGGAACCTTGAGAGTGTGTTTACAGAGAACCTCAGCTCCCGTCTGCCTCAGA
AACCTTACTGGGCTGAGCTGCCCTCCCCACCAGGGCCGCTGTGTCTCTGCTTCCCTCCGTTCTGCTTCAGCTTC
CCCTAAGGTTAGGGAAGAAAGAAATCGGGCTCACGAATGCCAGAGGCAGTGATGTCCCATCTGGAGGAGAGGAAA
CAGTGACTAAAAGCTGGGGACCCACAGAGGGGTTGGCAGCTTCTCTTGTGCGGACAGGTGTCTTTGCTGGGCC
CTGGATGGCCCTGCCCTGACTGGGGCTGCTCCTCCCTCCTGTCTGGGACCCCGCAGAGCCCACGCTCTCACTGC
TGCCTCCTGTGTCGCCGCTGCCTCCTTAGAAAGCTGTGACCAGGCAGCTAAGAGCCTCTGGGCTGCAGGGTCAGCC
TCTCCCAAGACTGAAGTGCAGAGGCTGGACTTGGGGCTCTCTCCCCAGCTTCTACACCTGGGCTCCAAGTCTGA
GTTCCACAGGGGACCCAGCAGCCTCCAGGAAGTCCATACCCTGGGGTGGCTGAGACCTTGGCTCTGTATGGAGG
CTGCTCACCCACAGACACTGGTGGGGAGACCATGGCTCAGAGGAAGGGTGGAGCAACCTTACTCTTACCCTCA
GGATAGAGAGAGAAGACACACTTGGGACACAGTGAAGACAGTAACTTGAACCTGACCAGGCCCTGGAGGACTGGC
CCAGGCAGGGGGACAGGGAAAATGGAGCCCAAGTAGCCTCTGGCCAGGGACCCCAATGTCCCGAGGAATCTGCCTC
CCACCCACTGACTCAGGGCTCAGACTCAGCCTCTATTGTCCAGAGCACTGGCTTGGCGTCCAGCAATGAAGGCTG
GAGAATGCAGCCTGGATTCCCTTAC
ACAGGTGTCTACTGACCTGGAGTACTGGAATAGCACTGGGGATAAATGTGACAACTGTGCATTGAACCTTGG
TCAGGGACGTTCCAATGGCCAAGAGATGACACAGCCAGGACCCTGGTGGACAGCCAGAGGGGCCACTTCAGGAT
GGATGTGGGGAGAGTGAAGAGGCAGGGAGTAATCTGGGGGACAGCAGGGAGGAGGCACTTCTTCCCTATGTCC
AGGAGAGGGCAATAGAGGGAAGACTGAGGCTGAAGAATTGACGGCTCTGGACCCAGGACAGACAGACAGACAG
AGACAGACACAGCACACACACCCATCTCTGTCTAGCAAGCAGCCTCCTAAGATAGCTGTTCTCCCTATCATGACGG
TGTAGCCACCATCCTGTTGTATACTAGGAGAGAAGTAAACCCACCTGGGGGAAAATAGCTCCCCAAGAGCTGGCA
CCAGTACCCTGATGGCCCTGCTTCTCTGAGTGAGATGCCCAGGAGGAGGCCCTAGGGAAGAAGTCAGGGAC
AGGGACCAGGATACCACTCTGTCACTGTGTGACCCTCAGCAAGTCACTAACCCTTGGCCTCATTTTTCTGTCTT
GTGAAGAGGACAATAATTCCTACTTCTCAAGATTGTTTTCAAGATAAAGTAACATTAGCATTGTACAATG

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FIGURE 2386

MNPCGWLGA VGPTLPNFPKWAASLLEPRVLPWQAQVAHPVSGGSPSPWISRPDTAQLDGTMAPAFLLLLLLWPQGC
VSGPSADSVYTKVRLLEGETLSVQCSYKGYKNRVEGKVWCKIKKKKCEPGFARVWVGPRYLLQDDAQAKVVNIT
MVALKLQDSGRYWC MRNTSGILYPLMGFQLDVSPAPQTERNIPFTHLDNILKGGTVTTGQAPTSGPDAPFTTGVM
VFTPLITLPRLLASTRPASKTGYSFTATSTTSQGFRTMGSTVTASPSNARDSSAGPESISTKSGDLSTRSPT
TGLCLTSRSLNRLPSMPSIRHQDVYSTVLGVVLTLLVLMLIMVYGFWKKRHMASYSMCDPSTRDPFGRPEPYV
EVYLI

2626/2682
FIGURE 2387

CGACTCTGAGGTGCATTCTTTTTTTGATGAGAGGCATCTCTAGGTACCATCCCTGACCTGGTCCCTCATGCTGCCG
AGGCTGTTGCTGTTGATCTGTGCTCCACTCTGTGAACCTGCCGAGCTGTTTTGATAGCCAGCCCTCCCATCCC
ACAGAGGGGAGCCCACTGACCCTGACGTGTAAGATGCCCTTTCTACAGAGTTCAGATGCCAGTTCAGTTCTGCTC
TTTTTCAGAGACACCCGGGCCTTGGGCCCAGGCTGGAGCAGCTCCCCCAAGCTCCAGATCGCTGCCATGTGAAA
GAAGACACAGGGTCATACTGGTGGCAGGCACAGACAATGGCGTCCAAAGTCTTGAGGAGCAGGAGATCCCAGATA
AATGTGCACAGGGTCCCTGTGCTGATGTGAGCTTGGAGACTCAGCCCCCAGGAGGACAGGTGATGGAGGGAGAC
AGGCTGGTCCCTCATCTGCTCAGTTGCTATGGGCACAGGAGACATCACCTTCCTTTGGTACAAAGGGGCTGTAGGT
TTAAACCTTCAGTCAAAGACCCAGCGTTCAGTACAGCAGAGTATGAGATTCTTCAGTGAGGGAGAGTGTGCT
GAGCAATATTACTGTGTAGCTGAAAATGGCTATGGTCCCAGCCCCAGTGGGCTGGTGAGCATCACTGTGAGAATC
CCGGTGTCTCGCCCAATCCTCATGCTCAGGGCTCCCAGGGGCCAGGCTGCAGTGGAGGATGTGCTGGAGCTTCAC
TGTGAGGCCCTGAGAGGCTCTCCTCCGATCCTGTACTGGTTTTATCACGAGGATATCACCTGGGGAGCAGGTCCG
GCCCCCTCTGGAGGAGGAGCCTCCTTCAACCTTTCCCTGACTGAAGAACATTCTGGAACTACTCCTGTGAGGCC
AACAATGGCCTGGGGGCCAGCGCAGTGAGGCGGTGACACTCAACTTCACAGTGCCTACTGGGGCCAGAAGCAAT
CATCTTACCTCAGGAGTCATTGAGGGGCTGCTCAGCACCTTGGTCCAGCCACCGTGGCCTTATTATTTTGCTAC
GGCCTCAAAAGAAAAATAGGAAGACGTTACGCCAGGGATCCACTCAGGAGCCTTCCCAGCCCTTACCCCAAGAG
TTCACCTACCTCAACTACCTACCCAGGGCAGCTACAGCCTATATATGAAAAATGTGAATGTTGTAAGTGGGGAT
GAGGTTTTATTCACTGGCGTACTATAACCAGCCGGAGCAGGAATCAGTAGCAGCAGAAACCTGGGGACACATATG
GAGGACAAGGTTTCTTAGACATCTATTCCAGGCTGAGGAAAGCAAACATTACAGATGTGGACTATGAAGATGCT
ATGTAAGGTTATGGAAGATTCTGCTCTTTGAAAACCATCCATGACCCCAAGCCTCAGGCCTGATATGTTCTTCAG
AGATCCTGGGGCATTAGCTTTCCAGTATACCTCTTCTGGATGCCATTCTCCATGGCACTATTCTTCATCTACTG
TGAAGTGAAGTTGGCGCAGCCCTGAAGAACTACCTAGGAGAACTAATAGACACAGGAGTGACAGGGACTTTGTT
ATCAGAACCAGATTCTGCGGCTCCTTTGAAAACAGGTCATATTGTGCTCTTCTGTTTACAAGAGGAAACAAGA
TGGAATAAAAGAAATTTGGGATCTTGGGTTGGAGGGACAGTGAAGCTTAGAGCACATGAAGTCAAGGTTAGTGACT
CTGCAGGACTTCACAGAGAGAGCTGTGCCCATCATTAGTCCAAGTGCTTTCTCTGCCCAGACAGCACAGAACTC
CAGCCCCGCTACTTACATGGATCATCGAGTTTCCACCTAAAATATGATTCTATTTATTTTGGAGTCACTGTTACCA
AATTAGAACTAAAACAAAGTTACATAAAAAGTTATTGTGACTCCACTTAATTTTAGTGACGTATTTTGTATATA
TAGGCCAACCTATACCACATCCAAAATTATGTATCTATTACAGCCCTTAGAAGCTTTATAAATACAGTGTGCTT
CTTTTATTCACAAAATTTTGAATCGTGGTAATATGTTTTGAAACCTGTATCTTAATTATTTTTTTTTTAAATT
GAGACAGGGTCTCACTCTGTCACTCAATCTGGAATGCAGTGGCACAATCTTGCTCACTGCAACGCCTGCCTCTC
AGGCTCAAGCAAACCTCTCACCTCAGCCTGCTGAGTAGCTGGGACTACAGGCACATGCCACCAAACCTTGCCATT
TTTTGCTTACGTAGAGACAAGATTTACCGTTTTTGCCAGGCTGGTCTCAAACCTCTGGGCTCAAGCAATGTAT
TGAATTTT

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FIGURE 2388

MLPRLLLLICAPLCEPAELFLIASPSHPTGSPVTLTCKMPFLQSSDAQFQFCFFRDTRALGPGWSSSPKLQIAA
MWKEDTGSYWCEAQTMAKSVLRSSQINVHRVPVADVSLQTPPGGQVMEGDRVLICSVAMGTGDITFLWYKG
AVGLNLQSKTQRLTAEYEIPSVRESDAEQYYCVAENGYGPSPGLVSI TVRIPVSRPILMLRAPRAQAAVEDVL
ELHCEALRGSPPILYWFYHEDITLGSRSAPSGGGASFNLSTEEHSGNYSCEANGLGAQRSEAVTLNFTVPTGA
RSNHLTSGVIEGLLSTLGPATVALLFCYGLKRKIGRRSARDPLRSLPSPLPQEFTYLNSTPTPGQLQPIYENVNVV
SGDEVYSLAYYNQPEQESVAAETLGTHMEDKVSLDIYSRLRKANITDVDYEDAM

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FIGURE 2389

GCCGGAGTTCGTGGGGCTGTGGCTGGGCCTGGCCAAGGCGGGCATGGAGGCCGCGCTGCTCAACGTGAACCTGCG
GCGCGAGCCCCCTGGCCTTCTGCCTGGGCACCTCGGGCGCTAAGGCCCTGATCTTTGGAGGAGAAATGGTGGCGGC
GGTGGCCGAAGTGAGCGGGCATCTGGGGAAAAGTTTGATCAAGTTCTGCTCTGGAGACTTGGGGCCCGAGGGCAT
CTTGCCGGACACCCACCTCCTGGACCCGCTGCTGAAGGAGGCCTCTACTGCCCCCTTGGCACAGATCCCCAGCAA
GGGCATGGACGATCGTCTTTTCTACATCTACACGTGGGGGACCACCGGGCTGCCAAGGCTGCCATTGTCTGCA
CAGCAGGTACTACCGCATGGCAGCCTTCGGCCACCACGCCTACCGCATGCAGGCGGCTGACGTGCTCTATGACTG
CCTGCCCCCTGTACCACTCGGCAGGAAACATCATCGCGCTGGGGCAGTGTCTCATCTATGGGCTGACAGTCGTCT
CCGCAAGAAATTCTCGGCCAGCCGCTTCTGGGACGACTGCATCAAGTACAACGTACCTGGCACGGCCCATCTG
GACTGAGAACTGGAACCTCAGAGGAACCCGTGCCTCTCTGCTGCCTTGGTGCCCCCTGTGTCTGCCTCCTCTCCC
TGCTTTTTCAGCCTCTGTCTCCTTCCATCCCTGTCCCTGTCTGGCCTTAACCTCTCCCTCTTTTCTTTTCTTTCT
TTCTTTTCTTTTTTTTTTAAAGATAGAGTCTCACTCTGCTGCCCCGGCTAGAGTGCAGTGGTGGGATCTCGGCTCAC
TGCAACCTCTGCCTCCTGGGGTTCAAGTGATCCTCCACCTCAGCCTCCTGAGTAGCTGGGATTACAGGCACCCG
CCACCACGTCCAGCTAAATTTTATATTTTATAGAGACGGGGTTTACCATGTTGGTCAGGCTGGTCTTGAACCT
CCTGACCTCAGGTGATCCGCTGGCCTCGGCCTCCCAGAGTGTGGGATTATAGGCGTGAGCCTCTGGCCCCGGCCT
TTCTTTTTTCTCTCTCTCTGCGGAGAGTGGAACACACGTGTCTGGGAGCTGCATCTTGTGTAGGGTCCAGC
TGCTTTTGGGGACTGCAGGAATCATCTCCCCTGGGCCCTGGACTCGGACTGGGGCCTCCCCACCTCCCTCTCGGC
TGTGCCTTACGGAGCCCCAATCCAGGCCTCCTGTGGCTGTTGGGTTCAGATGCTGCAGCTCCATGTGACTTCCA
AGCAGGCCCTCCGCCCTCCCTGCTGAATGGAGGAGCCGGGGTCCCCAGGCCAACTGGAATCTCCCAGGCTA
GGCCAATTGCCTTTTGCACCTCCCCGTTCCTGTACATTTCCCCAGCCCCACCTTCCCTCCTGATGCCCTGAAA
GCTTCCGGAATTGACTGTGACCACTTGGATGTCACTGTGAGCCCTGCCTTGATGTCCCCATTTAGCCATCT
CCATGGAGCTCCTGCTGGAGGGCCCTGAACCTGCACTGCGTGGCTGCCCAGCCAGCTGCCTCCTGTCTGGGAG
GAGGCCTCCTGGGTGTCTCATCTGGTGTGTCTACTGGAGGGTCCACAGGAGAGGCAGCAGAGGGGTGAGGGGA
GGTCTCCTGCGGGGGTGGCCTCTCAAGCCTCAGGGGTCTAGCCTGTTGAATATACCCACCTGGTGGTGGCC
CCTCCGATGTCCCCACTGATGGCTCTGACACCGTGTGGTGGCGATGTCCAGAAAATCCCACCAGGACGGCCCA
GACATCCCTACTGGCTTCGCTGGTGGCTCATCTCGAATCCACGCCAGCCTTTCTGGGGCCGGCCACCCAGGCC
GCCTGTCCGTCTGTCTCCCTCCAGCAGCACCCCTGGCCCCCTGGAGTGGTGGGGCCATGGCAAGAGACACCGTG
GCGTCTCATGTGAACCTTCTGGGCACCTGTGGTTTTATTTCTTAATTGATTTAAGAAATAAACCTGAAGACCGTC
AAAAAAAAAAAAAA

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FIGURE 2390

GCCGGAACCAATGTGCCCTGGGCCACTGGGCCGTGAGCAGCCACCGACTGGGGGCAACTTGGCACTTAGAACCGC
AGCAGGGACGTCGGTTTGTCTATCGGGACTCGGCGAGGACGATGGAAATCCTGTATGAATGTGGAAGCCATTAGCA
GAGTAATTGCTGTCTGTTACCATGACAACCAGCCGCTGCAGTCACCTGCCCGAAGTCCTGCCAGACTGCACCAGC
TCAGCTGCACCCGTGGTGAAGACGGTGGAGGATTGTGGCAGCCTAGTGAATGGGCAGCCGCAGTATGTCATGCAA
GTTTCAGCCAAGGACGGGCAGCTGCTGTCAACAGTAGTGGGACTCTTGCCACCCAGAGCCCCCTTCAATGACCGG
CCGATGTGCAGGATCTGCCACGAGGGCAGCAGCCAAGAGGACTTGCTCTCTCCATGTGAATGTACAGGGACCTTG
GGGACAATTATCGGAGCTGCCCTGGAGCACTGGCTGTCTCCTCAAACACCAGCTACTGTGAACCTGCCACTTC
AGGTTTGCAGTCGAGCGCAAACCCAGGCCGTTAGTGGAGTGGCTGAGAAACCCTGGCCCCCAGCATGAGAAGCGG
ACTCTGTTTGGCGACATGGTGTGCTTCTTGTGTTATAACTCCCCTGGCCACCATCTCGGGCTGGCTGTGCCTGCGG
GGCGCCGTGGACCACCTGCACCTTAGTAGTCGGCTGGAAGCCGTCGGACTGATTGCACTCACTGTGCGCACTCTTC
ACTATTTACCTCTTTTGGACACTAGTGTCAATTTAGGTACCCTGTGCGATTGTACAACGAGTGGCGTCGGACCAAT
CAGAGGGTGATTCTCCTCATTCCAAAGTCTGTCAATGTACCTTCTAACCAGCCGTCCTTGCTGGGCCTCCATTTCG
GTCAAGAGGAACTCAAAGGAGACAGTTGTTTGATGTTTGTATGGTTGGTTGGTTGTTTGATTCAATGTTTGGGGT
TTGGAAGTGTCTGCACTGGGGTCAATGCACTGAGCGACCCCCAAGCCCTTCCTTAAGCCTGTGGGTCTAAGAACAT
CCAGAGCATATTAGCACATCACTCCAAGCAACAACCTCCGCCAGAAGAAAGCAAATGCTGTTTTACTTCAAATGA
TGGATGCTGCAATCATATGATATTTGCTAAGCTGCCAAACATGTTTATTTAGCAGATACTGTATGGAATTTCTG
AACACCTCTTTAACGTATGAGGAAGGTTGTCTGCTACGGATGCAATTCAATTCTTCCTTTTTTATTACTATTTTC
AAACACACACACATATATATATATATATATTAACCTTAGATGATAATCAAATCAAAAAGTCAACGTAAAACTG
GTTTCTTGGTTTGGTTGGGTCTTATTTGAGTTAGTTTGTCTCAGTTTCTCGTATGGATTCTTTGGGGTACTTT
GGTAGCCTGAGTGGTCTTTTTCATCTCTTTCGCGTCCATTACTCAAGGAGACAGCATAACAGATGCAGAACAAAGT
CATATTTGAAGAATGTTTGTACTAACTTCATTTAATTATTCAAGTTTAAAGGGAAAAAGGGCGTGAGCTCAC
ACAGTGAGCTGTTTATTTAAATATCATTAAAGGAGAAAAAAATATGGTGAGAAGCTCGCTCTTTCAACTTGTT
TGGTACTGACAGCTGATAGAAGCTATTTTCTAATAATAAACATCCAGTGTGTGAAAGACAAAAAAAAAAAAAAAA
AAAA

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FIGURE 2391

MTTSRCSHLPEVLDPDCTSSAAPVVKTVEDCGSLVNGQPQYVMQVSAKDGQLLSTVVRTLATQSPFNDRPMCRICH
EGSSQEDLLSPCECTGTLGTIHRSCLEHWLSSNTSYCELCFRFAVERKPRPLVEWLRNPGPQHEKRTLFGDMV
CFLFITPLATISGWLCCLRGAVDHLHFSSRLEAVGLIALTVALFTIYLFWTLVSFRYHCRLYNEWRRTNQRVILLI
PKSVNVPSNQPSLLGLHSVKRNSKETVV

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FIGURE 2392

TCGGCTCGCGGCTTTCTGATTATGCAGAACTTAAATCTATGCCTCAGTGACCCATACAGCATTCCAGTTCCTATC
ACCTACTGTCTTGTCCCTATACTTGCAGCAGTTGTCCAGGGTTATTCTTTGTCTGTATTAGAATTTTTTTTCAGG
TTGCTTAAAGGAATCTTGCAGATACTTGTGACAAAGAATCATAAATGCTGTTGTTAAACTGAATAATGAATTGAGT
CCCAAATGTTCGTGCTAATTAATGCTTTTTGAGTTGGAGATGAAATGAGAGTAATATCATCAAGCTGTGGATTAA
AGTTATCCTCAAAGCCCCATCATCTACAAAAGAATAGGACAGGAACTGCCTTTGTGCAGGTGCAAGACCATGTT
ACTTTTGAGCAGTGAGCTTGAGATGTCTGGGATACAAATTGGGTTCCCTATTAATACTAATCATTCTTTTTTT
TCTTTCACCTTCAGCCACTCACAACCTGACCTTCACTACTATTACATCCTGGAGCTGTCGTTTTATTGGTCTTTGA
TGTTTTCTCAGTTCACTGATATCAAAAGAAAGGACTTTGGCATTATGTTCTGCACCACCTTGATCTATTTTCT
TGATTACCTTTTCATATGTCAACAATATGGCCCGAGTAGGAACGCTGGTCCTTTGTCTTCATGATTCAGCTGATG
CTCTTCTGGAGGCTGCCAAATGGCAAATTATGCCAAGTTTCAGAAAATGTGTGATCTCCTGTTTGTTATGTTTG
CCGTGGTTTTTATCACACACGACTGGGTATATTTCTCTCTGGGTGTTAAATACCACATTATTTGAAAGCTGGG
AGATCGTTGGACCTTACCTTCTCGGTGGGTTTTTAACCTACTGCTATTGCTAGTACAAGGGTTGAAGTCTTCT
GGTCTTACTTGATTGTGAAAATAGCTTGCAAAGCTGTTTCAAGAGGCAAGGTGTCCAAGGATGATCGAAGTGATA
TTGAGTCTAGCTCAGATGAGGAGGACTCAGAACCTCCGGGAAAGAATCCCCACACTGCGACAACCACCAATGGGA
CCAGTGGTACCAACGGGTATCTCCTGACTGGCTCCTGCTCCATGGATGATTAATTACTCAAACTACAAGTCCCA
AGCAAAGTGAAGTATTTGTTCTGGAAGTATTTAATAAGTTGCAAATGCAGTTCCTTTCATAATATCTCAGCACC
AGAAACAAAAATTAAGATTATCAAAGCATTTTGAATAGTGCAGTCCCATGTGTCCTGTCTGTGAATGAAGAAGAA
TTACCATTCTCTCTTTGTAGGCATGCTGTATGTAATTGACACAAGGGAACAGTATTTGCATTTGTACTGTCTTAG
AATATTATTTATTTTTTTGTATTTGTAAATCTGTGGACAAAAGAGGGTTTCTCACTCCTTTTACTCACTGGGCT
CATGACAGTGAAGGAGATGCTCCATCTGCTTCTCCCCCTTCTCTTGCTGTAGTCCAATGTGCTATGAGCATCAG
CTTACTTTGTCACTTAGAGCAAGCAAAACCCAGTGCAAGAGTCTCGTTCAGCTCTAAATAGGTTTGCTTTCTTTT
AGTTACAGTGCCCATTTTGAAATTGCCTATACAGTCTTAGTGACCATTTAAACCGGACGAACTAGGTGTTTAATT
TTCATCTTCATGTTCAATTAGCAGTTCAAATTAAGAAGATGGTTATTGGAGAAGTTTTTTGAATGGTTTTGTA
TTAAATTGCTTTGAAATAGATTTCAATTTCTTGTGCACACAGCCAAGATTTCTTCAATGGGTGTGAGCTAGTTGAG
GGTTAACCTTGTAGGTTGCAGANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNGATGAGGTCAGTGCTCTGATT
TTGAAGGAGGATATTTCACTGAAGCTCATAGTTATAACAAGGAAATCACTGTTAAGAATGGGAATTTGTCTGTG
TTCTGGGAATAACATAAAGAGAGCAACTGATTTAGCCAGGTTTTGCCACTACCTATAATTAGTGACAGTCTTAT
GTTATAAAGAAAGAAGTTAACTATATTTGGGACAAAAAATATTTCAAGAGTTGATAAAGATTACCTGTGCAG
TGCAGAGCACTTTAATGCAACCAGCTTTCAAGAAAAAGCCCTATCTAGTACTTGATGTTGATGTTTTTATTTTGC
TGAGCAAAATAAAGCCAATGGGAGAAGGACAA

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FIGURE 2393

MFSQFTDIKRKDFGIMFLHHLVSIFLITFSYVNNMARVGTLVLCCLHDSADALLEAAKMANYAKFQKMDLLFVMF
AVVFITTRLGIFPLWVLNTTLFESWEIVGPYPSSWWVFNLLLLLVQGLNCFWSYLIVKIACKAVSRGKVSDDRSD
IESSSDEEDSEPPGKNPHTATTNGTSGTNGYLLTGSCSMDD

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FIGURE 2394

AATTTTATTAAAAATTTTAAAGAATTTGGTTTTGGATTAAAAGGCATGCAAGCAGCATTAAATCCACTCAC
AGTTACAGTCTATCACCTGGGGCATTCACTACTTTTCAGAGTCAGATCACAGTTCAAAAGACAGCTCTCACCTTG
GGGCATATTTCCCAAGTCAGTGTGAACATGCTTTGTCCCAAGAGGACACTTTATACGCATGGATGTTACAAAT
TTATTCTAAACTGCAGGTGTCTGTCAAGATTCAATTTGTTAAACATGTCCTCTGTGTTAAAAATCCTAAATCCTT
TTGCATTTCTTAGAAAAATCACGTTTCTGATGAAATTCTAAAGATGTTTGCAATATTAACTAGAATATATTAA
CATGTATAATTTTGAGACAAGGTCTTGCTCTGTCAACCAGGCTGGAGTACAGTGGCTCGATCATAACTCACTGCC
ACCTCACGATCCTCTTGCCCTCAGCCCTCCGAGTGGCTGGGACTGCAGGCGTGTACCACCATGCCTGGCTAGTTTT
ATTTTTAGTACATAGCCTTGAAACAACGTAGCTTAAGCGATCATCCTCCCTCAACCTTCCAAAGTGCTGGGACTGT
AGGCATGAGCCACTGCACCTGGCCTGAAATTACATTGTTACAGGCACGTAAGTAACACTTCCTGGATCCAAAAAT
GTGTATTCTGCATTTCAACAACGTAACTTAAGCGATCATCCTCCCTCAACCTTCCAAAGTGCTAGGACTGTAGGC
ATGAGCCACTGCACCTGGCCTAAAAATTACATTGTTACAGGCACGTAAGTAACACTTCCTGGATCCAAAAATGTGT
ATTCTGCATTTCAACAACGTAACTTAAGCGATCATCCTCCCTCAACCTTCCAAAGTGCTAGGACTGTAGGCATGA
GCCACTGCACCTGGCCTAAAAATTACATTGTTACAGGCACGTAAGTAACACTTCCTGGATCCAAAAATGTGTATTCT
TGCATTTTCATATTAATAAAAAAGCAAGTGCTTGGGATACAAATATCTGCATGAAAATTTAAAGACTTTATTCC
TGACTGGTATCACTTTTAGTAAGCAGTTGAACATAACTTGTAGTGTGAATATGGCTAAAACAAAGGACACCTGAT
GTCTGTGAAGTCTGCTAAGGACAGGTACAAAATTTATGCATTGCTTTTTAAAAAGTTTAAATGAGGAATGCTTT
TGATAATCAGAAAGACTAATGTAAAGTGCTGACTGATGTCTGTCTGCAGTTAAGGAAGACACCCAACTCTCTTC
TTCTCATCATGGTATTCTCTATGTATAGATCTCTAAAAATGCAAACTTCCTATGGACAAGACAATATGATTTGC
TATAATATGAATTAAGATATGGTAATATCTAATAGTCTCCACTGCTAGGATTCTGAGTAACACAAAAATAGGTT
TTATAAAAAGCCCATGCACTTCAATTGGTGGGGGAAAAGAATAAAGTCATTTTCAGTCGACTGACTCTGTAAAC
AGATTACCAATATAACAAGCTATGTTATCTAAATTGCCCTGGCAGTCTTCAGTTTTCTTAAGTAAACAAAGTAA
AAGGAACAATAAGGATGCAGGCGTAGTAATAGCTGTGGAAAAGATGAACTACAGCCACAGTGACCTGTGGGCAG
CCTGCGTAGAGATAAGCTGAGGTGTCAGTCAGACTGATCCTGGTAACGATACTCCATGGCTGCATGAAGATGCTG
GAGGCATCAAGTGGGTGGCCTTAACCTCTAGTGGATTCACTAGGCAATGTAAATTGGTTAGTGGGTTCCCGTAAGT
GCCTGTAACAATAAAATTTCTTTTTCAATGTCCCCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2395A

GCTTATATTTTTTCCAGCTCCCAAATTCCTTTATTCCACTTTAGTCCCTTCATTTTCAGAGATGAGGAAACAGA
TTGCTTTGTTCAAAGACAGCTAGAACTAGAACACAGGCTAATACTTGCTAGCCATGTGATATACTAATGTCAGCC
AAATACGGGCATTACACTTTTCAGATGTTTGCCATATCTGTGCACCTTACTAATTCTGTTTAATACAATTTAAATT
GACTCCTTTAAATAAGCTTATTTTAAAGGAAATTTTTTGCTACTATAAATAGAAAACCATTATATCCTTTAAATA
GTAACCTCTAAATAGGAATTCAAAACAAAGCAACGTTATTAAAAATTTAATTTAAAATTAATTTAAATTTAATTGTT
ATTAAATTTTTTAATTATTGCTGTTCTTCGTCAGAAATGTGTCAAAGCATTGTTTTTCATGTTTGATGTCAGTTCCT
TAATTGTCTAAACAGAAAAAGCACAGCTAATGCCTCTAGTTAAGCTTCTGTATAACTTTTTTAAATGAAATGCTT
CTTAGAGGGGAAATGAGAGGGCATGAATACATGTTTATATACTAAAGTATGATTTTCATGTATATCAGAAGATCCT
ATTATATGGAACCAAATATTCTTTGGTTGATTTAATTGTTCTTGAACTTCAGTTTTTACCTTGAAGGTTTTA
GTTAGCTTAGCATAAGTTTATTTTTCTAAATAAGGAATCTGATTGCCTCACAACCTCAGATGTATCACAGTTATGG
TGAAATAGCAATATATTGGTTTCTGTAACCTTTTAAATACCGTAATGAATTAAATCTCTTCAGCAAAAGCAAT
ATATCTAGGGTGACGAGAGGTGTTTTAGTGTATTGAATGATGGAAATGTTTTCTTAAATATTCTGAAGCA
TTTTTTAAATAATTTTTGAATTTATTGATGATAGTAGTTGTGTGTTAGTGTGAATGACTGGTCTAAATGTGTA
TGTCACCTCCAAGGGATTAGTAGGGGTCAGAATGATTGTTTTATTTCATTGACTTTTCTTTGACGTGTTCTTAT
TCATTGGGCTACATACATTCCCTGTTGCCTTCTCACCAAAAGTGCCACTACACAGGCTGATTTTCATTGTACTGT
AGAAAAAGACAAGTAGACCTTTTTTCATTGATGAGATTCTATGAAATCTGTTGGTGGAGGTATAAAATGAGGAGA
CTTTTATGGGCTAGCTAGTAGGAGTTTTGCTGTGAAACCTTTGTAACAGGTCTATCAGGAACCTAGGGAGAGAAAT
AAATGCAGGAAATACCTGATCCCATTAAGTGAAGGATGAAAAAGACATGATAATTTTTGGGGATTATTATTGT
GTGATTTTCCGGCTGATCAGAAGTGTTAATTTTTTGTATACCTTGTGTCAAATACATATATATATATATATTTTG
AAATGGAGTCTTGCTCTGTCACCCAGGCTGGAGTGCAGTGGTGCATCTGGGTTCACTGCAACCTCTGCCTCCAG
GTTCAAGTGATCCTCCTGCCTCAGCCTCCCGAGTAGCTAGGACTACAGGCACGTGCCACCACGCCCTGCTAATTT
TTGTATTCTTAGTGAGATGGGGTTTTACCATGTTGGCCAGGCTGGTCTTGAACCTCCTGACCTCAAGTGATCTTC
CCACCTTGGCCTTTCTGAACTATTTCTTTACACACATTTAGAATACATCTAAGTGTATTATAGTTTTCACTTT
CACCATCAGACAAAATTCAGAAGATTCAAGAGAAGGAAAGTCGATTGTATTACTCATATTTTTGCTACCGTGT
TTTACATCTCATATTTAAGGCTCTCTTAATTATTTATTTCTGTTTAGTTAATTTCTCTAGCCATTCTTTATT
TATAGTGGGCTGCTGGTAACAAATTCCTCAATTTTTCTCGTCTGAGAATGCTTTGACTTCCCTTCCATTTTT
GTCAGCACCTGAAAAATACTATGCCACTATCTCTGGGTTCTGTGGTTTCTGATGAGAATCCACTGTCAGTCTA
ATTGTCGTTATAAATGCAGTGTCTCTCTCTCTCTCTGCTCCAGGATAATTTTTCTTTTTTTTTTTTTTTTTT
TCTTGAGACGGAGTCTCACTCTGTGCGCCAGGCTGGAGTGCAGTGGCGCAATTTGGCTCACTGCAAGCTCTGCC
TCCCGGGTTCAAGCGATTACTCCCACTTTAGCCTCCCAAGTAGCTAGGACTACAAGGCACACCACCATGCCTGGC
TAATTTTTGTATTTTAGTAGAGACGGGGTTTACCATGTTGCCAGGCTGGTCTCGAATCCTGACATCAAGTG
ATCTTCTGCTCCGCTTCCCAAAGTGCTGGAATTACAGGCGTGAGCCACTGCTCCAGCCTCTTTATTTTTTCA
GCTTTACTCTTTCTCTGCTTTTTGACATGTGTGTCCAGTGACACAGTGTAGATTTTGTATAGTCTCACGC
ACGGGTCTATAAGGCTCTGTTTTTGTTCATTTGTTTTTCTTATTTCTCTCTATTTCAGATCGAGTAATTTCC
ACTGTTCAAGTTTTATCATAGCTGCTTTTAAATCTTTGTGAGGTAATCTGTCTATCTAAGTTTTGGCACCTATTGA
TTATCTTTTGCATTGTTTTTGTTCGTTTTGTTTTGTTTTGAGATGGAGTCTTGCTCTGTTGCCAGGTTGG
AGTGCAGTGGCACTGATCTCGGCTCACTGCAACCTCCTCCTCCCGGGTTCAAGTGGTCTCCTGCCTCAACCTCC
TTAGTAGCTGGGATTACAGGCATGTGCCACCACGCCCGGCTAATTTGTATTTTAGTAGAGACCAGGTTTATCC
ATGTTGGTCAAGGCTGGTCTCAAACCTCCCAACCTCAAGTGATCCGCTGCCTCGACCTCCCAAAGTGCTGGGATTA
CAGGCGTGAACCACTGCACCCAGCCTATCTTTTGCATTGTTTTTAAATCTTGTTCTTGCTAGGATGAATGATTTT
TGTTAAACTAGATATTTTCAATATTATGTTTCTAGGCTCTGGATATTATCTAAACCTTCTGTTTTCACTGGCTTT
TATTGACACTGCTTTTGCAAGGTATAGGGGGTGCCCTATTACTGCCAGGTGGACATAGAAGTCAAGGGTCCCTA
CTCAGCCTCTACTGATGCCTCAGGAAGAGGATCCTTCTGTTATTGCTGGGTGGGGGTGGAAGTCTAGCTGACAC
CTACTGAGGTAGGTGCTGGGGCATGCCCGCCATCAGGGTGAAAGTCTGGCTCCCTAGTTGGCTACTTTTACA
TTGCCCTAATAGGGCATTGGAGCTCCTCACTATGTTTTATGAGCTGGAAGTCAAGGCTCCTCACTTAGCTTTTCT
TGGTGTGGGTGGTGGTGGGGCAAACCTGTTTTCTGGGTTTGGCTGGAGTGGAGCAGTTACTGTCAAAGTTTTCT
GTCTTGCCAGGCTGTCCCTTTCTTGTTCCTTTGGCTAGAGAGAGCAAGCTTTTGTGTGGCTCTTTTGTCTGTG
CCAGTTGGCATTTCAGGTTGCTGCCTTCTTTAGCTCCAAGTCTGGGATATATTAGGCAAAAAGAAAACCCAGAG

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FIGURE 2395B

AATTTACACCACCGTGTTCATTCATGGGTCTGAGGTCCCTTACTTAGTCTGCCTTCTCTCCACTTTTCACAGTC
TTCTCATGTTTTGTATATAATGTCCAGGTCTTTAGTTATACCTTAGCAGAAATAAAAGGGAAAAGTATGTCTGCT
CTATGCTTCTGTAAGTGAAGTCTTCAAATTTGCATTTTGTATTCTTTAAACAGTTTTGTAAAATATATAATCA
TTATTGGGCAAAATGTCCATAAAATGTATATACCTTGTGATGGTTTGCATAATATTGTGTTCAAGAGGACTGCT
GAAAAATAACATCTTTATTTAACTGAAACGAATTGTTACATTATTAATGAAAACCTTTCCCTCTAGGAAATA
ATGCAAAAGGTGTCCCAAGGCTCCTGACCAGTGAACAAAGATTTGAGAAAGACAGCCAAGCTCATGTTTTCTCCT
GATCAAGAAAATCATCCATCTAAAGCACCAGTAAAATATGGTGAACCTATTGTCTTAGGCTATAATGGGTCTCTC
CCAAATGGCGATAGAGGAAGGAGGAAAAGTAGGTTTGCTTTGTTTAAAGACCTAAGGCAATGGGGTGAAGCCC
AGCACTGTGCATATTGCTTGTACTCCTCAGGCTGCAAGGCAATAAGCAACAAAGACCAGCATAGCATATCATAT
ACTTTGTCTCGGGCCAGACTGTGGTGGTTGAAATATACTCATGACAGCAACACAGATATGTTTCAGATTGGCCGG
TCGACTGAAAGCCCCATTGATTTTGTAGTAACTGACACGGTTCCTGGAAGTCAAAGTAATTCTGATACACAGTCA
GTACAAAGCACTATATCAAGATTTGCCTGCAGAATCATATGTGAACGGAATCCTCCCTTTACAGCACGGATTTAT
GCTGCAGGATTTGACTCATCAAAAACATCTTTCTTGGGGAGAAGGCTGCCAAATGGAAGACATCAGATGGACAG
ATGGATGGCTTGACCACIAATGGTGTCTTGTGATGCATCCACGCAATGGGTTACAGAAGACTCCAAGCCTGGA
ATATGGAGAGAAATATCGGTGTGTGGAAATGTATTTAGCCTACGTGAAACCAGATCGGCTCAGCAGAGAGGAAAA
ATGGTGGAAATGAAACCAATCAGTTACAAGATGGCTCGTTAATTGACCTCTGTGGTGAACATTGTTATGGCGT
ACTGCAGAAGGCCCTTTCCCACTCCTACCGTGAAGCATTTAGAAGCTTTAAGACAGGAAATCAATGCAGCACGA
CCTCAGTGGCTGTAGGGTTCAACACACTAGCATTTCCTAGTATGAAGAGGAAAGACGTTGTAGATGAAAAACAA
CCATGGGTATATCTAAACTGCGGCCATGTACATGGCTATCATACTGGGGAACAAAGAAGACGTGATGAAAA
GATCGTGAATGTCTATGTGTAGGTCTGTTGGTCCCTATGTTCCCTCTGTGGCTTGGATGTGAAGCTGGATTTTAT
GTGGACGCCGGCCCTCCAACCCATGCGTTTAGCCCGTGTGGGCATGTGTGTTGAGAAAAGACAACCTGCCTATTGG
TCCAGATCCCACTTCTCATGGTACTCATACTTTTCATGCAGCCTGTCCCTTTTGTGCACATCAGTTGGCTGGT
GAACAAGGCTACATCAGACTTATTTTCAAGGACCTCTAGACTAACAGACCATTGTCTTGCAGGACTACATTATA
AATTTATAAGCTAAGTGAGTTGGGTTTTCGAACCTGTGTCCACGTCACAGTTTTCTGCTCTGGTCATTTCAT
TAAGATGAAGAATTTTTTAAACATTATAATAAATAGTAGCAATTTCTGAGCAAAAATCTGGGAAACTCAAGCA
AAGGAATTTCTGAAAGTATCAGTCTTCTGAATTTCTGAGTTTTGAAAATATATTTTGAGGAGAAAAAGCATAGTC
TAATTTGATGCCTTCCCTTTAGTGTTTTGAATCACCTATCCTCAGTGCTGAAATTTGTTTGTATACTGAGGGT
ACTGTTGGTTCAAACATGTAGTTTACAGTTTGTGCAACATTGTAATAACAGCGACATGTATATTAACCTT
TTTCTATTATCTTTATTATAGAAAATACCTTAGAATGTTCTTGATAGAGTAGCATGGTAACGATGGTGTACAC
CCTTGGTGTGAATGGTAGCTTAGTGAGCAACCTAGCTCAAGGATTTGCAAAGTTAGGAAGAAGGACGAGAGCC
TCTCTCCCCACCCCAATCTAAATATGGAATTTGGTAAATTAGAATACTTTGTAATTTGTAAGACCAAATTCATAC
TAATTACCGCGTGAAGGTGTTTGTTTTAAACAACATTGAAGATAATCAGGAAAGATTTTTCTTAATGTTTCT
CTCGAGCGTAGTACTATAACAAAACCTTAATGCTAAGAAACATTTTATATGCTCCTTTGGATATGCAATTTAATC
TAGATTATCTATTTTTCTCCATGATACTAATCTGTTTTAGTATCAGCAGCATTGGCAAGTTATTTTTTGG
ATATAAATCTGGTTTCATCTGTTCACTGTTCTAGAAAAAATCATTGCCATAAGAAAAAGTATAAATTAGCAAG
AAAGGAGAGTGACTTGATTGCTTTTGGAAAAAGAAATGCTTAATTAATTATTCTGTATTTGGCCTTATTCGGGC
ATTAGGAAATCTAGAGATCTAAAGGGTTGAATGACAATAGTGCCCCGTTTTTAGCAGACCAGCCTTAACCTCTGG
GTTTGAATCCTAAGGAGATTGCCACAGTGAGACTTAAGGAAATGTTTGGTTGGCAGATGAGACCAATGACTGCA
GCGTGGAGTGACGCACTGCATGGTCTGTTTATTCTTAATTTCAATATGTCTTTTGCTTCCAGAAGCAAGAAAAG
TTTCTTCTCTCCCTCCTTCCACCCCTTTTTTCAAAGGCACCACAAGTATAGACAGTTGCACTACATCAAATCTT
TTTTTGACACTGTAGAAACCAGTACACTTTTAGATTAGACAGTATCTTCTTTAATATTTTGATTGTTTTCTT
TTAGTTTGAAAAGTTGTATAATACTTAACCTGACTGTAGCAAAGTTTTATATGTGGTAGCATACCTTTAATTTATC
CTATTACAAAACGTCTGAAATTTCTTTTGGTTTTTAAAAACAAAACCTTGTGCTTAGAAGCCATGAATTATT
TTATTTTACTTCAACTGTGCAAACTTCCTTGTTTTAAAAATGATCATTGGGTTCACTCAGGAAATGCATGTCA
GGAACTTGTATTATAAGTTTATTAGTTGTGATGTATCAGTAACTGCTGTACCCTTTTTTCAAAGAAATGTAAT
TGATTTTGAAGTTTCTAGATTGTCACATGCTTTGTGACTAATGCAAGAAAGCAAGTCTGTGTGTATTGTTTCT
TAGTCATTTTTATTAGGCTATATATTGTAGCTTAATTTTTATTGCAATTAATTTATTTAACTAAGTAAATAC
TTTTCAAATA

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FIGURE 2396

MFSPDQENHPSKAPVKYGELIVLGYNGSLPNGDRGRRKSRFALFKRPKANGVKPSTVHIACTPQAAKAISNKDQH
SISYTLSTRAQTVVVEYTHDSNTDMFQIGRSTESPIDFVVTDTVPGSQSNSDTQSVQSTISRACRIICERNPPFT
ARIYAAGFDSSKNIFLGEKAAKWKTS DGQMDGLTTNGVLVMHPRNGFTEDSKPGIWREISVCGNVFSLRETRSAQ
QRGKMVEIETNQLQDGLIDL CGATLLWRTAEGLSHTPTVKHLEALRQEINAARPQCPVGFNTLAFPSMKRKDVV
DEKQPWVYLNCGHVHGYHNWGNKEERDGDRECPMCRSVGPYVPLWLGCEAGFYVDAGPPTHAFSPCGHVCSEKT
TAYWSQIPLPHGTHTFHAACPFCAHQLAGEQGYIRLIFQGPLD

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FIGURE 2397

CTAATCTTCCAGTTGCCCCCTATTGACITTTAAACCAAAGCTTTGATTTCATGACCACTGGGATCCAGCCAGCGGGG
GATTTCTTTTCTGATGGACTGTACCCAGGATCTCACATTTGCTTAAGCAGCTCCCACAATTGGGTCTTTATAAA
AGGACACAGAAGAGACAAGCTCAGTTTTCTCTGAAGGAGAAGGACTGCACCTAGAAGTGCATTTTGGTGACCTCT
GAAATTCAGTACGGCAGTGAATGAGCTTCTGACCTTGAGGTGAACCTTAACAAAATTATTTTTGGAAAAATCGTTG
TGGGAACCATTTAAAGAAGTCCAGGAAACATGAATTCGGAATCTTACAGGTCTTTCAGGGGGAACCTCATCTGCC
CCCTGTGCATGAAGTACTTCATAGACCCGGTCACCATAGACTGTGGGCACAGCTTTTGCAGGCCTTGTTTCTACC
TCAACTGGCAAGACATCCCATTCTTGTCCAGTGCTCTGAATGCACAAAGTCAACCGAGCAGATAAACCTCAAAA
CCAACATTCAATTTGAAGAAGATGGCTTCTCTTGCCAGAAAAGTCAGTCTCTGGCTATTCTGAGCTCTGAGGAGC
AAATGTGTGGCACTCACAGGGAGACAAAGAAGATATTCTGTGAAGTGGACAGGAGCCTGCTCTGTTTGCTGTGCT
CCAGCTCTCAGGAGCACCGGTATCACAGACACCGTCCCATTGAGTGGGCTGCTGAGGAACACCGGGAGAAGCTTT
TACAGAAAATGCAGTCTTTTGTGGGAAAAAGCTTGTGAAAATCACAGAAACCTGAATGTGGAAACCACCAGAACCA
GATGCTGGAAGGATTATGTGAATTTAAGGCTAGAAGCAATTAGAGCTGAGTATCAGAAGATGCCATTCATTTATC
ATGAAGAAGAAAAACATAATTTGGAGATGCTGAAAAAGAAGGGGAAAGAAATTTTTCATCGACTTCATTTAAGTA
AAGCCAAAATGGCTCATAGGATGGAGATTTTAAGAGGAATGTATGAGGAGCTGAACGAAATGTGCCATAAACCCAG
ATGTGGAGCTACTTCAGGCTTTTGGAGACATATTACACAGGAGTGAGTCCGTGCTGCTGCACATGCCCCAGCCTC
TGAATCCAGAGCTCAGTGCAGGGCCCATCACTGGACTGAGGGACAGGCTCAACCAATCCGAGTGCATATTACTC
TGCATCATGAAGAAGCCAACAATGATATCTTTCTGTATGAAATTTTGAGAAGCATGTGTATTGGATGTGACCATC
AAGATGTACCCTATTTCACTGCAACACCTAGAAGTTTCTTGTCATGGGGTGTTTCAGACTTTACCTCGGGCAAAT
ATTACTGGGAGGTCCATGTAGGGGACTCCTGGAATTGGGCTTTTGGTGTCTGTAATATGTATCGGAAAGAGAAGA
ATCAGAATGAGAAGATAGATGGAAGGCGGGACTCTTCTTCTTGGGTGTGTTAAGAATGACATTCAATGCAGTC
TCTTTACCACCTCCCCACTTATGCTGCAATATATCCAAAACCTACCAGCCGAGTAGGATTATTCCTGGATTGTG
AGGCTAAGACTGTGAGCTTTGTTGATGTTAATCAAAGCTCCCTAATATACACCATCCCTAATTGCTCTTTCTCAC
CTCCTCTCAGGCCTATCTTTTGTGTATTCACTTCTGACAGAGACAAATCAGAAATGTGTTACATGCTGTGGG
AACCCCTTTATCCCAGGAAGTCTCTTCTTGTGCTTAACATACAGGACAAATAGGCTCTATTTTATGTCTTGA
ATTGCCCTTCTAATGTTATCAAACTCATTATTGTGTTACTATTAAATATGCTGAAAACGCTAAAAGTATACGTA
TTGGTTCTTTATTAATAATTTTTGAAAAATCATTATTCATGATCATGGCATAACAGTATATTCTCTTTTTTTCT
TTATTTATGACTGTCACTGAGTGAAATAATAGATGACAGACATGTCTGAATGAAGTAAAAATCAATGGAAGACAG
TCGGGATCTTTTGCTTCATGCAAAAACCTTGGAGTGAAGTCTCAATGATAACTGGGAAATGTTTTCTTCTCTCT
TATCTAACTATATTACACTTATCCATCAGGTTTCATTGTATTAATCTATCCTTTGAGGTAATA

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FIGURE 2398

MNSGILQVFQGELICPLCMNYFIDPVTIDCGHSFCRPCFYLNWQDIPFLVQCSECTKSTEQINLKTNIHLKKMAS
LARKVSLWFLSSEEQMCGTHRETKKIFCEVDRSLLCLLCSSSQEHRYHRHRPIEWAAEEHREKLLQKMQLWEK
ACENHRNLNVETTRTRCWDYVNLRLLEAIRAEYQKMPAFHHEEEKHNLEMLKKKGKEIFHRLHLSKAKMAHRMEI
LRGMYEELNEMCHKPDVELLQAFGDILHRSESVLLHMPQPLNPELSAGPITGLRDRNLNQFRVHITLHHEEANNDI
FLYEILRSMCIGCDHQDVPYFTATPRSFLAWGVQFTTSGKYYWEVHVGDSWNWAFGVCNMYRKEKNQNEKIDGKA
GLFLLGCVKNDIQCSLFTTSPLMLQYIPKPTSRVGLFLDCEAKTVSFVDVNQSSLIYTTIPNCSFSPPLRPIFCCI
HF

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FIGURE 2399

GAAGTGCAGCTGGTGGAGTCTGGGGGAGGCTTGGTACAGCCTGGCAGGTCCCTGAGACTCTCCTGTGCAGCCTCT
GGATTCACCTTTGATGATTATGCCATGCACTGGGTCCGGCAAGCTCCAGGGAAGGGCCTGGAGTGGGTCTCAGGT
ATTAGTTGGAATAGTGGTAGCATAGGCTATGCGGACTCTGTGAAGGGCCGATTCACCATCTCCAGAGACAACGCC
AAGAACTCCCTGTATCTGCAAATGAACAGTCTGAGAGCTGAGGACACGGCCTTGTATTACTGTGCAAAAGATACT
GAATTAATCCTCTTTGCGGATTCCATAACCCGCCAATTACAGACTCGAATTGACTAC

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FIGURE 2400

TTTCCTTTCACACAGCAGCATCATTTATCTGGTAGTAGCAAGACAGCCGTATGACTTTTTGTTGTTGTTAAAGAA
AAATAAGTTGTCAAGATTTGCCTACCAATAACTTTCTATGTCTTGGCTTTCATGTCCAGTGGGCTAGTTTCCAA
CTGTTTGAGACTCAGGGTAATCCCAGAAACCTGTGAAGCATCGGCACAAAGGTTGTAGCGCAGATGCCAACAGAT
GTGTAGGTAACAAACTTGTAAAGGCACTTCAATCTCCAGTCTCCGCCTGGCCTCCTTGTTCTGGTGACCACCTTG
AACCATGAGTATAATACTTGCAGTGAGAGATTTTGTACAAGCTGACGAACCAAGAGGATCAACACAATTCCCACT
GCAAATTTGGTCAGACCCAAAACTAACATGTAGGTGGTGAGCGGTGGGATGTTCTGAATAACAGGGAGAGATTCA
GCGGGCTTGGATACAAGCTGGAAGAAATGGTTGATCCAGAATCCTATGGTCACTCCAGCCCCGGCAGCCAGAATG
GIGGTGGTGTCCGCCCGGGTTGGGCTGTA

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FIGURE 2401

AACGTTAAATTTAGATGTTTTACCTCTAAATGAGGTGAAATTGCAGGTTCCCTCTGGCTGGCGGTGGGGAGGAGA
CGCAGGGCAGCTTTGGCCAGCAGTGAGCGGACAGACTTAGCGGGAGTAGACTCTGCTTCCTCCAGCCACACCTTG
GGGACGGAGGCCCAGGACAGTCCCCAGTGTCTGGGAGCATCTGGCTTCCTCTCCCTGCACACACCAGCCGGGTCT
GAACGGCATCAGTTCTAAGTGCCAGGCCAGAGAGAGGCAGCGAGGGACACGGAGTAGAAGAGGCTGTCTGTCTG
CCACCAAAGGTGACCACCATGTCGGTGAGGTTGCGGTTCTGTCCCCCTGGGGACACAGGGGCGGTGGGGGTCTGTG
GGCCGGAGCGCCTCCTTCGCAGGCTTCAGCAGTGACAGAGCCGGAGGATCGCAAAGTCCATCAACAGGAACCTCC
GTGAGATCGGAATGCCTGCAAAATCCTCCAAGATGTACGGCAGCTGCGGAAGGGGTCTGTGTGCAGACCCG
AAGCCCCAGCAGGTGAAGAAGATCTTCGAAGCATTGAAAAGAGGCCCTCAAGGAGTATCTGTGTGTGCAGCAGGCT
GAGCTGGACCACCTGTCTGGACGCCACAAAGACACCAGGAGGAATTCCAGGCTGGCTTTCTATTATGACCTGGAC
AAGCAAACGCGCTGTGTGGAAGGCACATTTCGAAGATGGAGTTTCACATCAGCAAGGTGGATGAGCTGTACGAG
GACTACTGCATCCAGTGCCGCCTGCGCGACGGCGCCTCCAGCATGCAGCGGGCCTTCGCCCGGTGCCCCCGAGC
CGCGCAGCCCCGAGAGAGCCTGCAGGAGCTGGGCGCAGCCTGCACGAGTGCGCCGAGGACATGTGGCTCATCGAG
GGGGCCTGGAGGTTACCTGGGCGAGTTCCACATCAGGATGAAAGGCTTGGTGGGCTACGCACGCCTCTGTCCC
GGAGACCCTATGAGGTGCTCATGCGTCTGGGCGCCAGCGTTGGAAGCTCAAGGGTCGGATCGAGTCAGATGAC
AGCCAGACCTGGGACGAAGAGGAGAAGGCCTTCATCCCCACGCTGCATGAGAACCTGGACATCAAGGTGACGGAG
TTGCGGGGCTGGGCTCGCTGGCTGTGGGTGCAGTGACGTGTGACATCGCCGACTTCTTCACGACGCGGCCGAG
GTCATCGTGGTGGACATCACGAGTTGGGTACCATCAAGCTGCAGCTGGAGGTGCAGTGGAACCGTTTGATACT
GAGAGCTTCCTGGTGTACCCAGCCCCACGGGCAAGTTTTCTATGGGCAGCAGGAAGGGCTCCTTGTACAACCTGG
ACACCCCCGAGCACCCCCAGCTTCCGGGAGAGATACTACCTGTCTGTCTACAGCAGCCAACACAGCAGGCCTTG
CTGTGGGTGGCCCAAGGGCCACCTCCATCCTCAGCTACCTGTCTGTACAGCGACCTCCGGGGTCCCAGCCTAAGA
AGCCAGAGTCAGGAGCTGCCTGAGATGGACTCCTTCAGCTCTGAGGACCCCCGAGACACGGAGACCAGCACGTCG
GCGTCCACCTCAGATGTGGGCTTCCTGCCCTTGACCTTCGGTCCCCACGCCTCCATTGAAGAGGAGGCTCGGGAG
GACCCCTGCCCCCAGGTCTCCTGCCAGAGATGGCCACCTCTCTGGAGGCCCGTTTGACAGAGCAGCTGGCTGG
AGGAACTTAGGAGGGGAGAGCCCCAGCCTGCCACAGGGCTCCCTGTTCACAGCGGCACAGCCTCGAGTAGCCAG
AACGGCCACGAGGAAGGGGCAACCGGGGACAGAGAGGACGGGCCTGGCGTGGCCCTCGAGGGGCTCTGCAGGAG
GTCCTGGAGTTGCTGAGGCCCACGGACTCCACCCAGCCCCAGCTCCGGGAGCTGGAGTACCAGGTCTCGGCTTC
CGGGACCGGTGAAGCCCTGCAGAGCACGGCAGGAGCTACCTCGGCCGAGAGCCTGATAGAGTGCATCCTGGAG
AGCTTCGCCTTCCTCAATGCCGACTTCGCCCCGATGAGCTGTCCCTGTTTGGGGGCTCCCAGGGTCTCCGGTGA

GTGCACCTCCTTCCAGCAGTGACCCAGTGGCCACCACTCCACCGGGTGACCCGAGCTCCACGTTTCCTGCCAGC
CTCCCCGTCTGTTTCTCCCACTGTCTTGGCTCAGCTCTTGTCACCTCTATCGTGACCCCTTCCCCATGCCATCCC
CGCACATCCCCCACTTGCCCTCAGAGCCGGTCTCAGAGACCACGAAGTGGGTGAGATACCCCCAGCCTGCCCCCTG
AGCCTTCTGCTCCAAGGAACCAAGCTTTTATGATTATTTTTTAAACCTTAAAAATAATACCAAGTATATAGTAGA
AGTTCTTTGAGGCCAGGCACAGTGGCTCACGCCTGTAATCCCAACACTTTGGGAGGCCGAGGCAGGCGGATTACC
TGAGGTGAGGAGTTCAAGACCAGCCTGGCCAAATGATGAAACCCCGTCTCTACTAAAAATACAAAATTAGCTG
GGCATGGTGGCAAGAGCCTGTAATCTCAGCTACTCAGGAGGCTGAGGCAGGAGAATCACTCGGACCCGGGAGGCG
GAGGTTGCAGTGAGCCAAGATGGCACCCTACATTTAGCCTGGGCGAAAGTAAGACTCTGTCTCAAAAAAAG

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FIGURE 2402

MSVRLRFLSPGDTGAVGVVGRSASFAGFSSAQSRRIAKSINRNSVRSRMPAKSSKMYGTLRKGSVCADPKPQQVK
KIFEALKRGLKEYLCVQQAELDHLSGRHKDTRRNSRLAFYYDLKQTRCVERHIRKMEFHISKVDELYEDYCIQC
RLRDGASSMQRAFCPPSRAARES LQELGRSLHECAEDMWLIEGALEVHLGEFHIRMKGLVGYARLCPGDHYEV
LMRLGRQRWKLKGRIESDDSQTWDEEEKAFIPTLHENLDIKVTELRGLGSLAVGAVTCDIADFFTRPQVIVVDI
TELGTIKLQLEVQWNPFDTESFLVSPPTGKFSMGRKGS LYNWTPPSTPSFRERYYSVLQQPTQQALLGGPR
ATSILSYLSDSLGRPSLRSQSQELPEMDSFSSDPRDTETSTASTSDVGFLPLTFGPHASIEEEAREDP LPPG
LLPEMAHLSGGPFAEQPGWRNLGGESP SLPQGS LFHSGTASSSQNGHEEGATGDREDGPGVALEGPLQEVLELLR
PTDSTQPQLRELEYQVLGFRDLKPCRARQELTS AESLIECILESFAFLNADFAPDELSLFGGSQGLR

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FIGURE 2403

GGATTAGCAAAGGCTTTAGAAAACACAAAAAGACTAATTTGTTGCCTCTGGATGTGTGTGTTATTTGGGCTG
TTAATATACTTGACTGCTTGTTCAGGACTGGAACCTTTTCTTTTACCTTTAAGATTCCTGCATTTTCATGTGC
TCATTACAGCTGGGATTTGTGTTTCATAGAACTGGTAGTATTGGAGGTAGAGGAGATACTGTGATATCATATCTCT
CTCTCTGTCTGTCTCTCTCTCTCTCTCCCACTGAAGAAGAGAAGACAAAATTTAGAGAATTTGAGACTTGCTCAA
AGTTGTGTAGCTAGTTAGCGATAAAGCTGGAATTGCACCAGATTTGATTTCCATGACATTGCTTTAGCCTGGTGG
TTCTCAAAGCATGGTTATTGGACCAGCAGCATCCCTTGGGAATTTGTTAGATATGCAAATTCATGAGATCCCAT
TCCCTTATCAGAAATTTAATACGCTGTGTAGGGTGATTCTAATGCCTGCTAAAACCTGGGAACCACTACTGTGG
TCTTTACACTATTGGGCAGGGAGATGGGAGACTACAGGTAGATTTGCTGAATTCATGGGCAACACTAGGTTTTTC
ATTTTACCTTATTGTTCTGCCATTTAGATGTCTCCTTTAAACATTTTACTTGCAGTGATGGCTTCCTTAGAC
TC

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FIGURE 2404

ISKGFRKLQKRLICCLWMCVLEWAVNILDCLFQGLEPFLPLRFLHFHVLQLGFVFHRTGSIGGRGDTIVISYLS
LCLSLSLSPTEEEKTKFREFETCSKLCS

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FIGURE 2405

GTTTTGGTTGTGAGTCITTTAACTTACATAAAAAATATGGAGAATTAGCATATTCACATATCTATTTGTGATGTT
TATCATACGGAAGTTTTAAATATAGTAAATTCAGTCITTTCCATTTTTTTTTGTTTATTTAAGAACCATTCCCTA
GCTAGGGTCATGAATACATTCTTATGAATTATAGAATCCCAACTGGATAGCTAGTTTCCTAGCACCTTTAAAAA
ATAGTTTATTATTTTCCTCCTGATGTATAAGGCCACCTTTACCAATTTACATATAATGTACGGAATGTTTCTTG
GCTCTGCATTCTGTTAAATTGGTCCATTTATCTAACTTTGCTTAGTAACCCACTGTTTTATCATTGTGGTATCA
TAATTGATTATCACAAATGGTAGAATGATTGTCCTCAAAGTCTTTTCTGGTATATATTGATATAATTGTATAGCT
TTTCTTGGTGTAGTAAAGTACACAGTTAAATTTTCTAACATTGAAATATCTTTTAGATTTTCACTTCCAGAATGG
CAATGTGAAGGGCCTGTGGACCCACTGTCCTAGGAATTAGCTATAACTAGTGAAAAAT

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FIGURE 2406

TTTTTTTGGCTTTTAAAAAGTAAATTTATTACCACACATAATAAGCTCCAGAGAGTAGAGAGATTCCATCATGT
CATCAAGACCCATGATAAATCTGTTAAACATTTTGGATTTTTTTTGAAGTGTACACTCTGTTACTCTCAATATA
TGGGTCTCATACTTTGGCCAGGTTCCTCTGCAGTGCCTCAAAACTCTGTCCCCTGGAGCAGAAAAACCGGGGCTG
TATTTTACCCAAGTTGGCTCTGCCCTTGCACTTTTTTCATAATTGTCTCAGGATTTAGGACAATAGCTGCAGGTAG
GAAACAGGGAGAAAAGAGCAGTTGTATATAGTCCCTTGGGTTTCACAGCTCCTCAAAGAAACAGAGAATTAATTA
CATGGTAGATCTACCCTATTACTGGATCCCAAGAGGGAGCCATCACCAGGCCGTCTATTATTGCTGCTCCTACGT
CTTGTAACCAATAGCAAGCATCCTGTTCTCAGACACTAAGTGGGTTTGGAGACCATGAGTGTATGGAGACACG
ATGTCATAAATAATAAAGCTTGGGAGAATGTGGGGCATCGATCCCACTACCTTCTTGATGCTAAGCAAGCGGCT
CTACCACTTGAGCTAAATTCCTCCACATCAGGGCAGCATTATTTATTGGTTAGCGGGTGGCCTGGAAACACAGGT
GATTTTCAGGGCCTTCAGCAGGAAAGCAGGGCTCCTAAGAGCAGATTTTCTTCACTTGATGGGCCAGGGCAAACA
GCAGTGGCTACTCATTGTCTGCAAAGAAGGAGGAGAAAAGGGAAACAAGGAGAAAGTCACAACGGGAAAACCTTCAC
GCTGCCAAAATGCCAAGTTTAGAGTATTCCGGGACAGAAAAGGGCACGTCTAGCAAAGGAGGACCTGCCTAGAC
ATGCCCAGATAACTCTATTTGAAAGCCTTGACACTGCGGATGAGAGATCTCTGGAGTGTGTGCAACCCAGTGGTC
AAGTGAGGACTGGAAAGTGGGCCATTGCACAGTTCAAGCTCTCAGGCTCTTTTAGGTAAGTTGTTCCGGGATTAG
AGCCACTTATTACAGCTGGCAGGTGCGTCCACAAGCTCATGAACAACCTTATGGTTTTGCTTTCTACAGTATCT
GTCCAGGCACATTCTAGTTACTTGACACATCTTGGTTTCAGTCCCTCACCAGAAAGCTGGGGCTGTATTTAACC
AGGTGGCTCTGTCTCCACTTTTCACAATTGTCTCACATTTAGGACCAAGCTGCAGGCAGAAACAGGGAGAAAAG
AGCAGTTTTATATGTCCTTTGGTTTCACAGCTCCTCGNAGAAACAGNAAATTAATTACACAGTAGATCTACACTA
TACTGAA

2647/2682
FIGURE 2407

CAAAATTAACTTAGACTTTTTGAATTTATTAGCTGTTTTGTGAAGATTAAATTTAGAAAGCTAAAATTAAACA
CTGAAAGTAAGTTACTTTATTCCATACGGTCTCTGTCCAGTTTTAGCACTAAAATCAGTTCAAGGATGCCAATCC
CTAATTGGCCAAATAGCCTTACCATTCTTGTTTTCTTCTCCAAATTTGTTTTTTTGCTGGTCAGATAACTTCCAA
TCTCTAAAAATATTCTGAAATGATAAATTTTTATGATACAGCATAGAATAATATGTATGTGGAGACTTGAAGGAG
TCAAATCTCAATGAGCCTTTTGTAGGGCTTAACGATTGTTAAAAGGGGGCCAAAAGGGCACTAATTTTGGAAAG
TGTATGTTTGTATGGTGGTGAATGTGTAGAGAGGGTGAAGTAAAGGAAAAGTAGAACAAGAAGAAAGAAAA
CTGATAGGTATGACGATGAGAGAGAAAGAAAATGGGAAGAGAGCGCAAGACGTGCAGATTTAGAAAAAAGGTTGA
GGGAAACATATTCAAAGGGAAAAAGAAAGCAGGGGGAAAATACATTAGAGGTGTTGAAATTAGTAGGCACTCAC
AGAGGTGCTAATCGAGAGTTCTGTTGGGCTCCTGTCATGCTGCTATTAAAGAGCATTAGCAGCTAAGAGATCTAA
ATTCTAGTCCTAGTTCTTTGTGTTGCCGTGGAGAAGTCAGTTAACTTACATGAGGCTCAGGTTCCCTTACCTGTGT
GTAAAATGGGAACATTGAACTAGGTGATCTTTAAGATCCCTTCCGGCTCTAAAATTGTTTGACATTATCTTGGTG
GTCAGTAACGTGTGAGAAACACATTCTGAGGAAAATTTGCAGCTATAGTTGACTTCAGGACAGCATGTTTAGGGA
GTAGAATGTAAGCTCCCTGAGGGTAGGGGCCTTTTCTGTTGTGTTCACTGCCATATCCCAGCAGCTAGCACAAAT
GCGTGTTACATAGTAGGCATTCTTAAATGTTTGTGAATGAATGATGTGAAAAGTATGTTGATGGTTTGTTAGG
AGCACACCTAGAAAGCCTCAAAGAAAAATGGTGTGCTTTAGGGAGGGAAAAGACAGATTTCTTCTGAAGAAATCT
TAAGCAAGCTGATTTTTAATCCTTATTCTTCCTTATTTGTCCCAGATTCAAAGAAAGTGGCTTCAGCTAGTGAC
ATTCTCATAGTCACAAAACTTACGGTGACTGTAGACATACATAAAAGTGTACATGTAATCTAGGCCAGTTCCCTT
TAAGTATCTTACAGAAAGGCAGGACCAAGCTTAGGTCTCCATGGAATCTGAGTGAAGTATATACATGGAATAT
ATTAGTTATATTGAATTAGATTGATTGGATTAAAATTCATTAGTTGAGAGGCACAGTTAGTCTACAAGNCTGAG
ATACAGGCTGCCAAATTTAAGAT

2648/2682
FIGURE 2408

KLNLDFLNLLAVFVKINFRKLKLNTESKLLYSIRSLSSFSTKISSRMPIPNWPNSLTILVFFSKFVFLVLR

2649/2682
FIGURE 2409

CTTGAGTACTTTTAATTTGCCATGCACAACCTTTAAATTCTTTTTTCTATATGTCTCAGACAGAATAGATGGAGT
GTGCAAGGATAGATGGTGAATATGTATTTTGGTAAATTTGTAGAGAAAACGAAGAAAACATATAATTCACTAAAT
AATGATAATATCCAATGTCTGTTGGGGGCAAAGAGCCTAGAATGGACAAAAGTAGTATGTAAATTTAGAAGGGTG
GGAGATCAGATTTAAGGCATCCTGAGGTCAAGGTATATTTGGAGAAAAAAATACTATTTAACTTCGTTTCAGAA
GAATGACGTAGAGTTTTAATTAATCAATTCCAAACATGTAGAGGGAGAATTAGGATGGGGAAGAGAAAAAGTACA
CCCAAAGGAGGTAGGAAGGGTGAGTGTAACAGGAAAGGCAGAATGAATAGAAAGGATAAATAGAAATAAGAGA
GTGGAAATAAATCCAAAGAAGTAAACAAAATAAAGGAAAAAAAATCTGAGCATGGTG

2650/2682
FIGURE 2410

LSTFNLPCITLNSFFLYVSDRIDGVCKDRW

2651/2682
FIGURE 2411

CTGGGACATCTTCATCCTTTTTGTCCCATGACCTTCCTTATTTATGCTAATACATTTCCTTCCCTGAGTTCCT
CTACACTACCTATCTCTCAAATGGCAGCAGGGTCAACATCACCATAGTCTGCTATTCTTTGATAACTCCATTTAT
GCTCTCTTTGAAGTTCACCTTCGGCATTATCACTTTTCATTTCTTTGCTGCATTTTATCTTTGTTGGCCAGTTC
CCTCTTTTCGTGATACATTGTTGTAAATCTCATGGGAGTTAGCCACCTGGAGACAGGGAGGCAACAGAACTACA
CACTTTGCTGCTGTGCATAAATTGAAGAGCAGAAGCTCAGTGACCAATCACTGATGGACTTTGAAAGGAGTGAC
AGTAATTGGCCCTCAATTATGATGCTTATCTTTTATTTATGTCGTGATTCTAGACTGAAGAGTTAGCAACAAAG
TTTATACCATATGCAACTACTCGTGATCAATATACCAAGGTACTGAAAAAGAACCATGTCCTGGGCTACTAGTG
TTATTTAACTGAATCATGCAGAGTGAGGGCTGCCTGTATTCTTGCCTTTGTTTTCTAGAACTGAAGCATGGAGGG
TCAAAATATGCATCCAATGTTATTTAGAGCTGGAATTTGAATCCATGCAGTTGGGTGCAGAGTCTGAGCTCTTAA
TCACCTTGACCATTACATTACCTTGCTTTTTTATTTCTTTGGGGAAATGTTTCCTAAAAAATGTAACGCCCTCT
GTGCTGCTATGTGGGAATCAGAAGTCTCAGTGCTGAT

2652/2682
FIGURE 2412

WDIFILFVPMTFLLIYANTFAPPEFLYTTYLSNGSRVNITIVCYSLITPFMLS LKFTSGIITFHFFAAFLSLLASS
LFS

2653/2682
FIGURE 2413

CAGCCATGGCTTTGCTGCAATACTCTGGGCCATTATCGGTTTTGGTTTTTCTGGGATTCCCATAACTGCAAAGC
AAAAAAAAGGTTTTTTAACATGAGCTGTAGCTTCCCCTGTTTGATATGTGGCCAGATAAAATGTGAATAAATAT
CTACTGAAACATGAACAAAGGACAATTTTCCAAAAGTGGGAATGTGTGTTATGTCCATCTGACAGATGGAATTTG
GAGATAGACCTCTAGGGTTAACTCCTGCTCCCTGATGTGGCAGATGCAGGACTTCACCGGCAGAAAAGTGTTTTA
CAATCTCCTTAACCTGCTTCCAGGATAAGCCGIATCTTTTTCTGAGGCCTGCAGCATTAAAGATGGGTAAAGCAAT
GGAACGTTTGTGCATCGGCAAAAGCTGCAGAAACCAGTGCATCCGCCCTTTGATTAAAGTTAAAAGGACCAGGGAG
GTTAGTATGTGCTCTCATATGAGTAATATAGAAAGGGGAATGTCTTTGTTGTACTGCTTGTGTAAAGAATGAAA
TAAAAGATTAAAGTTGTTTACC

2654/2682
FIGURE 2414

ACAGCCGAAGGGAAAGCAGCAGGTTGGGGCTTCTTGTGGCCAACTTCAGAGCCTGTCACCAGGAAAGGTAAGCAT
GGGAGGAAGGAAGATGGCGACAGATGAAGAAAATGTCTATGGTTTAGAAGAGAACGCTCAGTCCCGGCAGGAGTC
CACGCGGAGGCTCATCCTTGTGGGAGAACAGGGGCCGGGAAGAGCGCCACTGGGAACAGCATCCTGGGCCAGAG
ACGGTTCTTCTCCAGGCTGGGGGCCACGTCTGTGACCAGGGCCTGCACCACGGGCAGCCGAGGTGGGACAAGTG
CCACGTGGAAGTCGTGGACACTCCGGACATTTTCAGCTCCCAAGTGTCCAAGACAGATCCTGGCTGTGAGGAGAG
AGGTCACGTGCTACCTGCTCTCGGCCCCCGACCCACGCGCTGCTCCTGGTGACCCAGTTGGGTTCGGTTACCGC
CCAGGACCAGCAGGCGGTGAGGCAGGTGAGGGACATGTTCCGGGAGGACGTCCTAAAATGGATGGTCATCGTCTT
CACCAGGAAGGAGGACCTGGCCGGGGGCTCCCTGCACGATTACGTGAGCAACACAGAGAACCGGGCCTTGCGCGA
GCTGGTGGCCGAGTGGGGGGCGGGTCTGTGCCCTTTGATAACCGGGCCACCGGCCGGGAGCAGGAAGCCCAGGT
GGAGCAGCTGCTGGGATGGTCGAGGGCTTGGTGCTGGAGCACAAGGGCGCCATTACTCCAACGAGGTGTATGA
GCTGGCGCAGGTGCTGCGCTGGGCAGGCCCTGAGGAGCGGCTCCGGCGGGTGGCGGAGCGCGTGGCAGCCAGGGT
GCAGAGGAGGCCATGGGGCGCCTGGCTGTGCGCCCGCTGTGGAAGTGGCTGAAGTCCCCCAGGAGCTGGAGGCT
GGGCCTGGCCCTGCTGCTGGGGGGCGCGCTCCTGTTCTGGGTGCTGCTCCACAGGCGGTGGTTCGGAGGCCGTTGC
GGAGGTCGGGCCCTGACTGACAGCGCAGGTCCTAAACTGAAGGCAACTTGGTTAAGGGAGGCTGAATTCTTGGAG
CTGAAGGGAAAACATTCATTCCAACGGAAGGAATCCTGTAGTTTCAGGCATAGTTTTAATGACACAGAAAACCTTG
CTGCATCACCTTTGCAACTTTGCCAAAGCTCAGAGTTCACCT

2655/2682
FIGURE 2415

MGGRKMATDEENVYGLEENAQSRQESTRRLILVGRGTGAGKSATGNSILGQRRFFSRLGATSVTRACTTGSRRWDK
CHVEVVDTPDIFSSQVSKIDPGCEERGHCYLLSAPGPHALLLVTLGRFTAQDQQAVRQVRDMFGEDVLKWMVIV
FTRKEDLAGGSLHDYVSNTENRALRELVAECGGRVCAFDNRATGREQEAQVEQLLGMVEGLVLEHKGAHYSNEVY
ELAQVLRWAGPEERLRRVAERVAARVQRRPWGAWLSARLWKWLKSPRSWRLGLALLLGGALLFWVLLHRRWSEAV
AEVGPD

2656/2682
FIGURE 2416

TTTTTTTTTTTTTGTAAACATATAATTTTTTTTATTTTGAGCGTGACACTTCTCCACTAGATAGCAAGGAAAAGT
GGTAACAATTACACATTACACAAAAGTACTGTACCATTGCCTTTATCTTGAAGGTTTCGGAAGCCTCTACAGTTA
ATAAGTTAAATAAAGGGCTTGAGTACATAAAATTTTGTCTAGGAACCCTACCGTATCTACAACACAGTAAGAATC
TACGGGAGGACAAACTTTTACCATAACCACGCTGAGTGCAATTGCGTTATAACATTTCAAATATACAAAGCTCTGT
TCTTTTTTTTTTTTTTTAATAACAATGGTATGTACAGAATCAATAATCACAGTTTGGTGACTTCAACAGTCCAT
ATTCTAGCAGAGTATTATTTCCCTTTGGTTTGATATAAAAACCTTGGTTGGTGTATGATAAAGAAGAGAACAAGA
ACAAGACGCCCCCTTTCCCTTTAAGTGCACGTGTAGCTATCTTACAGGCTCGCATTTGCTTCCCGGGCCCTGGCTTC
ACGCTGGGGCCCTCGCTGGGGAGATCAACTTCGAGCGCCAAAATGCTATTTAAAAAAGAAAGAAAGAAA
GAAAGAAAAGAAAGGCTAAGTGGGGTGTGAGGAGGAAGAGGTTGGGCTTTTTAAATTTTTTACTTCAATATCAGG
CGTCTGGGGGAGAAAACCTCCCCGATATTTTCAGGAAAGTAAGAACAAGAGAGAGTGGATGTTGGAGTTGGAGCG
AGGTTGGCAGTAGCAGGGGCAGGGGCAGGGGCGGGTGGACAGCCAGCCGAGGAGGTGCCACGTCCCGGAGCGCCG
AGGGCTGCCATGCCCGCATCCAGACTGCTGTGAAGGCGGCTGCGCTCTCTCAGTGCCGTCTCGGGAGTGTGCTGG
TCCTCTGTTTCCATTTGGTCTTGAGTGGTGTGAGTGAGGTGACCTTTTCGGGGCGCGCGGGGCGGGGTGTGG
AGGGCAGCCTTTAGCACACCTCCTTGCCCGTGCTGGTGCCCGGCAGGATGTTGAGCTGCGTGAGCTGCGCCGCT
GCTCCTTGGCCTTGAGCCTCAGCGCGGCTATGCTAGAGGCGCGTCTGTCTGCGGCCGC

2657/2682
FIGURE 2417

GGGAAC TTGAGG TTTAAAGCAGGGGGAGGAGGGCCGGAATGCTCCCCGCCGCCCCGACACTCACTCGCCCCAG
GCCCCATCCTAGCCCAGGGTCAGTGTCATTCCCTTCACCTTAGCCTCTCACTGCCCCAAGAGGCTTACTTTTCTT
CTTTAAACTGCTGTTAAATTTGGGAGGAAACGGAAGCAAGGGCACCTGATGGTTTCAGTGCAGCTTCAGGTTAG
AGGGGCATTGAGGTGCCTGAGCTGGGGGAGGGCCTTCCCCCTGAGGGACTGGGAGAAGGGTAAGCCATGTGCCC
TGGAAGCACTGCAGGGAGCCTCAGATTTGCACCCCTGGCTCACACTCGCTGGCGCCAGCCAGCATGGCAGGGAT
GGGCGGGGCTGGTTCTTAGGTTTCCTGCTCTTTGGGTGCTAGCACCCAGGGTAAGGAGACACCCATGTCCGGTTG
CAAGACAAACCCTTCTACCTCCTTTCTGCCAAAGGCCACCAGCATCCTCTGCCTCAATCTCAATCTTTGGACCT
TTTAGCTCCAAAGTGGTTTGATGACCACAGGCTAAAATTCATAGTCTTAAAATTTAGATAGTTAAGAGACAGA
TCTGTTACAGGTTTTCAAATAAACTGGTCTATCTAGTGT

2658/2682
FIGURE 2418

MVQCSFRLEGHLRCLSWGRAFPLRDWEKGKPCALEALQGASDLHPLAHTRWQPAWQGWAGLVLRFPALWVLAPR
VRRHPCPVARQTLLPPFLPKATSILCLNLNLWTFLAPKWFDHRLKFIVLKF

2659/2682
FIGURE 2419

CACTGCACTTTCAATAAGGCATTTTAGGATTTCTAAGTTATGTATGGTAAACAGCTGGATGAAAAATTCAATTGC
ATTGTTTTTCCAACTTACAGATGATTGGTATAAAGAAGGTTAAGTCTTTAGATAAGTAATGAAAATGTTTGCTT
TACACAAAGTAGAGACTATACAATGTTTTATCTCAAGATGTATTGATGTACTGAAAAATGCATTTTAAATTTTT
TCCAGAAACTACTGAGTTACAAAAATGGGTCATCGTCCCACTTTGTTACACAGTGGAAATGATAAATCTAGGT
AGGATTTTATGCCTGAAAGAGAATCTTAAATGTGTCACTACATTTTGTTCAGATTTAGAACTCAGGTTCTTG
GAGACTATGAAATGTGTCCAGAGTCACAGAGCAAGAAAGTGGCATAGCTAGGACTACAAACAACCTTTTTCAAAA
TCCTGAGACTCTCCCAATAGTTTATGAACATGTATTTATGTATTACATATTTATTATTGAACATGTATTTCTGTG
TCTTGCACTCACTGGTTTTTGAAACAGAATTAAGGGATGAATAGGATATAATGTCTGCTCTCAAGGAACCCAGTTT
CAATTTCTATGTCTTTTGACACAGTGCCTAGTGGTAAGATCAGGAGAATACCATGAGTATCATGTGCCTTCAGTT
CACCAAGACATGTAAGAAAAAAAATTAATTATAGTCACATGACCCAGATGTAGANATATGAGGTCAAGGAGGG
CTGGATTATGTAGCTCATTACCATTATCATTAAATGTGTAT

2660/2682
FIGURE 2420

TALSIRHFRISKLCMVNSWMKNSIALFFQTYR

2661/2682
FIGURE 2421

ATCTTAATCCTCACAAATAGTGCCCTAAGGAAGGTATTAGTATCCCCATTTTACAAAGGAGGAAACGGGGAACCTG
GGGAGATTAAGCGAAGGCCTCACAGATCATGAATAGAAGAGGCTGGAAACCTAGTCTGGTTCAAGGGTGTGCTCT
TTCTGCTCTGCCATGCTGTGCTTCAGCCCTTCCCCACTCTCAGCCCCATGTGCACGCAGATAGGGATTTTCACTC
TTTGCCCTGTATGAAAGGAGGGAAGGTAAGACACATGAGCCTAGGGGGAAGGTCCATCTGCAGGACTACCCTGAA
GGGGATGGGACATTCTGGCCCTCAGCCTACAACTCTTTCCTTTTATTTCTGCTGGTGAAGCATAATTTAA
AGATGACTTTGTTTTATACATACATACATACTCATNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCAAGATA
GAGGGCTCTCTGTAAATAAATAGACCTGTCACCTATCAAAGATGCTAACCAAGGACTTACCAAATGTCCTTTGAT
GCTAAGTATCTTTCAGAAAAGTTATTACTCAACCTGAGTCACGGAC

2662/2682
FIGURE 2422

MNRRGWKPSLVQGCALSALPCCASALPHSQPHVHADRFHSLPCMKGKVRHMSLGGRSICRTTLKGMGHSWPSA
YKLFPFISCW

2663/2682
FIGURE 2423

GGCGTGAGCCACCATGCCCAGCCTGCTGCTGTTGCTTCAGCTCAGAAAGTCCTGGCAGAACTGGTCCACAGGGA
GACACAAGGGGCCACCCAGACCAGGGGTGGAGGCTTGAACCTTTGGCAAGCCACAGTCCTGGCTCCAGACTATGCTG
TCTTGCTCCTTGGAGCACTCATGTGCTCGAACTTGGCCCAAGGAGTACTAAAGCCTCCCTGCGCCTTGCAGGCAG
TTCAGTCACCATGGAGACCCTGTGTATTCTCAACCCAATATGCCTGATACTGATTGCCACCAGAGCTGAGCCCAT
CTAGGCTCAGGAGCTTCAAATGATGGCCTTGGCCCAGACCATCAGTGCTCTCGCTTATATCAACTTTTGGGTTCTC
AACTGGAAATAAGCAAAGCCTGCAGATGACTCCAGCAGTAACCTACCGGAAGCCTCCTTTCAGCCGAGGTTGACA
TCCACTGTTGGCTTTATAACCTTCCTACTGATCATAAACCAAAATGTGATGGGGAGCTAGGACTCCTTCACCTCTC
TTCCCTTTAGTAGTAGAGATGAGCCTTGGTGGGAAGCCATTTGAGGGTTTATTTAGTCATTTCTCCATCGCTGTG
GGGACCAGAGTCCTGGCGGGAAGAGGAGGGCCAGCTCTGGGAATCTGTTGAGAGGCAGCTTTTCCATTGT

2664/2682
FIGURE 2424

REPPCPACLLLLQLRKSWQNWSTGRHKGHPDQGWRLWQATVLPDYAVLLLGALMCSNLAQGVLPKPPCALQAV
QSPWRPCVFSTQYA

2665/2682
FIGURE 2425

CTCTGCGCCCCGTCCTCCTTTCCGGCCGCTCTCTCTCCTCTCTCCCTTCTCACCCTNGATGGGTGGGGGGTGAT
GCTGGCGGGGGCTGTAAACCCGCCCCGCGTGTGTGTCCGANGNGGGTNNGGTNANGTAANGTNGNGTNGGAGGN
ATCGCACGGCGCGGNCCTCTGGGACGCTGGAGTTCAAGCCTCTCCCAGAGGCCGCTGGGGGCAGGCCTCGCCTCG
GGAGCCCCGGGTCTTCTCCAGAGCTGCTCCGGCTCTCCTCGGCCCCGCTCTCCTTCCCCCTACTTGGCCTCCCCTT
GGTGTGTTCACTTGGAAGCGCCCGAGCCTCGGAGGCACCCACTGTTCTCGGGACGCGGCGTAGGCAGCTCCAAC
ACTTTGAGCCCCGTCCTTGTCTGAAGCCTGCAAGTTTGTCTCCCTTCTGGAGTGACATGGTCGGCGACCAAGCGCGG
GACCCAGGCTGTGCGCGCTGTGCCTGCGCCCTGCGTTAGAGGCTCGGTGTCTGGTGTGTTACAGGCTTCTTACC
GTGTCTGTCTGAGGGGCGTGAAGTTCCTCACTGTACCGCGCCAGCTGCTACGAGGAGAGACCGAGATCACGGGC
GAGGCGGGTGTCCCTGGAGGGGGATCTCTCTTAAGCGCTGCTCGGCAACACAACCCCTCCGCCCCCCCATCCTT
CTCACTCCGGGGGAAAAAGCACTTGCTTTCCCAGGCAAATTCGGG

2666/2682
FIGURE 2426

SAPRPPFRPLSLLSPFSPLDGWGVMLAGAVTPPAVCVRXGVXXXVXXEXSHGAXSGTLEFKPLPEAAWGQASPR
EPGSFSRAAPALLGPALLPLLGLPLVCSLGSARASEAPTVLGTRRRQLQLL

2667/2682
FIGURE 2427

TTAAGGGTACACAGTGTACCTAACATAATATAGGGTTATGAGCAATCTCACATATAGCTAATACAGTGTAAC TTC
CAGAGGACAATTTACACAATGTATTTATTGAAGCTTCCAAAATGTTACACACTTTTACACAGATGCTAGCAGT
GTATACTAAATGCCAGACACCAAACCTAGGCCCTTCAACCACAAAGGGTTGCTTAATTAAATTTACAGTTTGTGTA
ATCTCATGTTTTGTATTACAGACTAAGTATCTATTAATAATACAGCAGAAACACAATTTATTGACTCGCAAAAGA
TGCTGTGTAAGTTCCAAAAGCAAAGAAAAAATATAAGCGAAAACGATTCAACTTTTTTGTAAGCATATACTATAA
GCAAAAATACACAGAAAAAACCTGGATGAACCTGAATAAGATTATGAATGATTTTTGTCTTATATTTATTACT
TGTCTGTATTTTCAAGTTGTTAAATAAATATTAATTACAAAATAAAAAGGTTTTTTACACAAAACATTTAAAA
TC

2668/2682
FIGURE 2428

GGCACGAGGAGACATCACATGCCCCAGTCTGATGCACCACGGAGTCGTCTCTGATGTATTCTTGTCAAAAAATG
TTTGCTGATTCTAATCATGAAAGAACAATTAGAAAAATCCAAATTGACAGATATTCTGCAGAATAAATGGCCT
GACCTCATCAAAAACATCAATGTCATGAAAAACACAAAACATTGCAGATAGCGTGAAATTAAAGATTACAGAGAT
ATAATTTAATGCAAGATCTCTGACTGGATCCTAGACTGCAGGAAAAAGTCTGCTATAAAGAACATTGGATCACT
TGTAGTAGCTGGGAAATAAAACAAAACATTATTTGTAAGGGGGGAAATCTGAACATGGGTCTTGCAGTATTTA
TGACAGTTTTTGCAGGGCAGAGATTTCTAGATTGACAGCTGTTTTAGTACTTTCAAGGTGATGCTCTGTCTGCTG
GTTTGCATTGTTTTCTGTCTGAGTTAAGAGACTGGCAGAACACAGAGTTGCAGTAGCCAAACACTGGAGAAAGCTG
GGCCCTACAGAAACCTAACGCTGAAGAAACCTCAGGAGCCAAACTGGTGGAGAAAACAAAGAGTCCTCCCTCTCT
CCCTTTTCAAATAATGATCATACTCTTCAAGCTGTCTGAAATGGTTAAGGAGTTCAGTCTGTCTGTCAGGCACAC
CCCCAGAGCCAGCCTAGCCACACAGACCCNTCAGAGCCAAACCAGCAAGGAGAATTTNATTTTCATNTCCNCC
TTGAAAGGACTTCTAGGTAGGGAGGGAGACCCTTTAAC

2669/2682
FIGURE 2429

GCCGCTTTGGGGGCCGCGGTCTCTCCGCAGCTCGCGGGTCACATGGCCCGCCTGAGCAAGGGGAGCCCTGCGCCT
GAGCTGCGAGGCGGGAGGAGGTGAGGCTCCGGCGCACACCCAAACCGCGCTGCGCCCGCTCCTTCCGGGCCCCGG
AGATGGCGCCTCCACCGGGATGAGCTAGCCAGCCTGGGCAATACCAGAGGCGGCCCTCGGCGCGCGCAGGGGACC
GAGCTGGTCGCCCCAACCGGGTTGATTTCTGATGACTCTGGCCTGAGTTCCAGGATGGTTTTTCTTGGGACCA
GACATGAACAAAAGTTGACCTCATGAGCACTTCAACCTCTCCAGCTGCCATGCTCCTCCGGAGGCTGCGGCGACT
GTCCTGGGGCAGCACTGCTGTCCAGCTCTTCATCTAACAGTGGTGACGTTTGGCCTGCTGGCCCCCTGGCCTG
TCACCGACTTCTACACTCTTACTTCTATCTGCGCCATTGGCATCTGAACCAATGAGCCAAGAGTCTCTGCAGCA
AAGCTTGAAAGAGGGTGAGGCTGCCCTCCACTATTTTGGAGAGCTTCCCTCTGCCAATGGCTCAGTGCCCATTTGT
CTGGCAGGCCACCCCCGGCCCTGGCTGGTGATCACCATCATCACTGTGGACAGGCAGCCTGGCTTCCACTACGT
CCTGCAGGTTGTGTCCAGTTCCACCGGCTTCTTCAGCAATGTGGCCCCAGTGCGAGGGGCACCAACTCTTCTCT
GTGCAACGTGGAGCGTAGTGTGAGCCATTTTGTGCAAGTTGCTCTCCAAGTATGTCCCTGTGGCCAATCGCTA
TGAGGGCACTGAGGATGATTATGGTGATGACCTTCGACCAACTCGTTTGAGAAAGAGAAGCAGGACTATGTCTA
TTGCTTGGAGTCATCCCTGCAGACCTACAACCCAGACTACGTCTGATGGTAGAAGACGATGCTGTACCAGAAGA
GCAGATCTTCCAGTCTTGGAGCACCTTCTGCGGGCTCGCTTCTCTGAGCCACATCTCAGAGATGCCCTTTATCT
CAAGCTGTATACCCCCGAGAGGCTCCAGCACTACATCAATCCAGAGCCCATGCGGATCCTGGAATGGGTTGGTGT
AGGCATGTTGCTGGGGCCCTTACTAACCTGGATATACATGAGGTTTGCCAGCCGCCAGGGTTTAGCTGGCCTGT
AATGCTCTTCTTCTCCCTGTATAGCATGGGTCTGGTGGAGCTGGTGGGTCGGCACTATTTCTTGGAACTGCGGCG
GCTGAGTCTTCCCTGTACAGTGTGGTTCTGCTCTCAGTGTGACCCCGAGCCATGCTCTTCCCGGCACCTGC
GGCCCGCCGACCCCTCACCTACCTGTCCCAAGTGTACTGCCACAAGGGCTTTGGCAAGGACATGGCACTGTACTC
GCTGTTGAGGGCCAAGGGAGAGAGGGCCTATGTAGTGGAGCCGAACCTCGTGAAACACATCGGGCTCTTCTCCAG
TCTCCGGTACAACTTTTCATCCAGTCTCCTCTAGGGTGCCAAGAGATGCCTTTCTGAAGTTGGCCACTTCTTGAA
GATTCAAATATTTATCTCTTTATTTAGACATGGTTGCCTGCAGGTATTTCACTGTTTACTGTTGTTAGAGATATA
GGCACTGGGGCAGCTGAGGAACCTCAATATGTTAAGAGCCTTGGCTTTGGTAGCCTCCTGGCAGGAGCAGCAGTT
TGCCACAGGTCCGGACCTCTCCCTCCACACAGCCACACTGCCTCATGCAGTCTGACCCACCCAGTGAGGGTGCAT
TTGAACACTGATTATATCTCCATTTGTTTTTAAGCTCTGCTTTGTGTTAGAGCTTGTGACTGCCAAAAATTTTG
TGCACAGTGATATGACTGTTTATGATCTTAAGGGTAGAATTTTGTGAAAGGTGAGATCCTTTGGAATTGAGTTC
TTTCTCATTGGGTATGAAAATGGATGTATGTTTGAATATATGCCCAACGAGGCAGGACCATGTGGATAGATTCC
ATTTGTTTCTTGACCTGATGTAATAAAAACTGATAAAAGCCGTGCAGTGCCCGGCATCTTGGAAAAA
AAAAA

2670/2682
FIGURE 2430

MSTSTSPAAMLLRRLRRLSWGSTAVQLFILTVVTFGLLAPLACHRLLSYFYLRHWHLNQMSQEFLOQSLKEGEA
ALHYFEELPSANGSVPIVWQATPRPWLVIITITVDRQPGFHYVLQVVSQFHRLLQQCGPQCEGHQLFLCNVERSV
SHFDAKLLSKYVPVANRYEGTEDDYGDDPSTNSFEKEKQDYVYCLESSLQTYNPDYVLMVEDDAVPPEEQIFPVLE
HLLRARFSEPHLRDALYLYKLYHPERLQHYINPEPMRILEWVGVMLLGPLLTIWYMRFPASRPGFSWPVMLFFSLY
SMGLVELVGRHYFLELRRLSPSLYSVVPASQCCTPAMLFAPAARRTLTYLSQVYCHKGFGKDMALYSLLRAKGE
RAYVVEPNLVKHIGLFSSLRYNFHPSLL

2671/2682
FIGURE 2431

ATGGTATAAGATTAAATATATTAGTTATGAAAATAATTGTAAATGGCTTATTGAACTTATAGTCAGTAAAAATCA
TGTTTTTGAAAATTATGTAATGACTTTGGAAAATACCAGCAATATAATGTAAAGTGGGGAAAAAGCAAGTTACT
CCTCTGTAATACATATGATTTTAGTTTTGTAATAAAAATCCCAACCATATATGCACTTATAGGGAAACAAAGGA
CCCATCGCAAATGTTTTCCATGCTGATCTCCAAAGTGGTGAGTTTATGTGTGATTTTTATTTGTTTATGCTCTT
CTGTATTTCCGAATTCATACAATAAATATCTGTTACTTTTACAATATG

2672/2682
FIGURE 2432

WYKIKYISYENNCKWLIELIVSKNHVFENYVMTLENTSNIMLSGEKSKLLLCNTYDFSFKIPNHICTYRETKD
PSQMFSMLISKVVSLCVIFILFMLFCIFRISYNKYLLLLQ

2674/2682
FIGURE 2434

MTVILFTQLTAPMAVILFTQLTAPMTVILFTQLTAPMAVILFTQLTAPMAVILFTQLTAPMAVILFTQLTAPMAV
ILFTQLTAPMAVMIVTMVTIVALMV

2675/2682
FIGURE 2435

AAGCAAAATCAATCACGTTATTTTCAGCTCCGTTTCGACACAGGAAAAGGAAAAGAATGCACATGCCAAACAAGAA
GAAATTTGGTAAGAAAAGATTCAAGATATGGCCTTTATACACTAATTATTCTTAATAATTTCATAAGTCCTTCTG
TCTTACCTAATTTCAATTTGTTTAACAGTAAGACTATATATACATTACATAACAAGAATCAAACATATGCTAGCAGATA
AGACCGAAAGACTTCTTCAGGGCTCCTCGACCAAAAAAGTGTAGCATCCGACCAAAATTTCAAGAGAATATACTAG
GCTTTCTTCACCATAGACCATCCACATTCTGAATACCTGTGACTTCATTCCGTAAAGCATCTCCCAAATGCAGAT
AATGTATTCAAATTACTACAAATCCAATTTTAACTCTACATACAAATAAAATATCTCAAGAGATAGCTGATGTAC
TTCATAGTATAAAC

2676/2682
FIGURE 2436

AKSITLFSAPFDTGKGKECTCQTRRNLRKDSRYGLYTLIILNNFISPSVLPNFICLTVRLYIHSYKNQTMLADK
TERLLQGS

2677/2682
FIGURE 2437

TCTGTACTCTGTGATCTCTTTTCCTTCATCCTTGCAGAAGGCTGGAAGCTTGCTTCTGGAGAAGGCTATGCACAC
TGGGAATACAGTTGAAAACCAGGGTACCACACTCAAACGAGTGTTACTATTATGTAAGATCACCAGTCTTCTTCC
CTCACCCAGCTTTCAGAAITCTGGCCAGAATAGAAGTGTCTTATCTAACCTGACCAGCTCAAGGTAAAAGACCTC
AAGAATCGGACATTGGCTGTGTCTGTGTCTCCAAAGAAAATGTCCCAGTCAGCTCACCTACTGTGAAACCCATA
TTGAATCCAGAACTTCTATTTAGTTTGTGTCTTTTTTCTCATAAAACAAATTTGTTATAGTCTTACTAAGATAT
AATTGGCATAGAATAAACTTTACACTTAAAGTGAAAACTTGAGTTCTGAGGCATGTATATATTTCCACAGTCGC
CACCACAGTCAGGTAATCAITCCCCTAAATTTTTTGTGCCTCCTTATCTTC

2678/2682
FIGURE 2438

LYSVISFPSSLQKAGSLLLEKAMHTGNTVENQGTTLKRVLLLCKITSLPSPSFQNSGQNRSVLSNPDQLKVKDL
KNRTLAVSVSPKKMSQSAHPTVKPILNPELLFSLCPFFLINKFVIVLLRYNWHRINFTLKVKNLSSSEACIYFHSR
HHSQVIIPLNFLCLLI

2679/2682
FIGURE 2439

ATGTTGGTGAAGATGGTACTTATCTTGGTGCCCAATCCGGTCCCTGCACCGACAATGACAAGGGCAACCAGCGCC
ACAATAATGGCGTATTCAATACCTGAGGCACCCTCGCTGCGTTTGAAGAACAGTTGCGTCTGCACGTAAAGCTTC
ACTATCAGGTCAAGGAACATATGACTTCTCCCTAAAGCGCCACGGATTGCCGGTACGGCTCTAGCACGATCTACG
CGGCGTGCCACTAGAGCATTGTCAACAAACCCTGGGCTCACAACCTGTAATAACGAGTTAATCACAAAGTATTAGT
CGCAAAGTTGGCGTCATAAAACCAAGCGTTCAAGGAGGCGGATCTTTAGTTCCGGTAAATTTTTTGTGAGATAAT
GGCATTTCGTCCTAGCTGAGCTACCTTCAAATAGCCAAATCGTTAGATGTTTCATCACAGCCAGGTTGCGAATTAA
CTCGTTTGGATTGGCGGGACTGTAGTGCAACCGGAAAGGGAGAGCCGTCATGAACAGTCGTATCAGCATGATCCT
GGCTGGCGTGCTGTTGGTCGGGGCGTTGATCGCGGGGTATTGGGGGCTGGTGCTGAGCCGCAACCCGCCCCCGTC
GCCGAACCTGTCATTCTGCTGAAAAAACCGCGCTGACGCCGAAGACCAGACCCGCTCCCGGTCGTGGTGCTGGT
GCGCGATGTGCCGCTTTCGTGGCGCTGACGAAACGACTGGCGGGGAAAAGCTGGGCACGGTG

2680/2682
FIGURE 2440

MLVKMVLILVPNPVPAPTMTTRATSATIMAYSIPEAPSLRLKNSCVCT

2681/2682
FIGURE 2441

CCTGATTAGTTGTGATGAATCAGCCCTTAACCTATTTCCATGGTTTGTGGAGATTGGTTCATTCTGAGTACAAT
AGGATGGTGGGATTTTGCCTTTAATGTTCATTTTAAACAGAATTCTAGACGCAGATCTAACATTCAAACCTGAATT
ATGTTTTCTGTTAAAAGACGGTGAAATGTCTTGGATATATCCTCAGGATATGTCAGTGCTTTCTCATAAAATAAT
GTAAGCAATAGCAATTCTTATTTGTAGAGCATTTTGTTCTGGGTGGAATCTGTGTGGTGGTTCTAGGGGCTGGAC
CTAGGGAAAT

2682/2682
FIGURE 2442

LISCDESALNLFPPWFVEIGSFLSTIGWWDFCFNVHFKQNSRRRSNIQTELCFLLKDGEMSWIYPQDMSVLCHKIM